

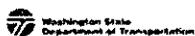
## Schroader, Kathy

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**From:** Geist, Melissa <GeistM@wsdot.wa.gov>  
**Sent:** Thursday, August 27, 2015 4:43 PM  
**To:** Cnty 2016 Comp Plan  
**Cc:** Cnty Board of County Councilors General Delivery; Burgstahler, Ken  
**Subject:** Correspondence from WSDOT to Clark County Community Planning  
**Attachments:** Clark County 2016 Comprehensive Plan Update\_08.27.15.pdf

Good Afternoon, please see the attached correspondence from Michael Williams, Planning Manager of the WSDOT Southwest Region regarding the 2016 Comprehensive Plan Update.

Thank you,  
Melissa



Melissa Geist  
Southwest Region  
360.905.2181  
[geistm@wsdot.wa.gov](mailto:geistm@wsdot.wa.gov)



**Washington State  
Department of Transportation**

Lynn Peterson  
Secretary of Transportation

Southwest Region  
11018 Northeast 51st Circle  
Vancouver, WA 98668-1709

360-905-2000  
Fax 360-905-2222  
TTY: 1-800-833-6388  
[www.wsdot.wa.gov](http://www.wsdot.wa.gov)

August 27, 2015

Clark County Community Planning  
Attn: 2016 Comp Plan Record  
1300 Franklin Street PO Box 9810  
Vancouver, WA 98666-9810

Re: Clark County 2016 Comprehensive Plan Update

Dear Comprehensive Plan Team:

The Washington State Department of Transportation (WSDOT) has reviewed the Draft Supplemental Environmental Impact Statement (DSEIS) for the Clark County 2016 Comprehensive Growth Management Plan Update. WSDOT reviews this document with great interest, as this update could result in a significant increase of traffic on the state highway system, as well as county transportation facilities.

WSDOT's vision of providing a sustainable and integrated multimodal transportation system requires us to utilize all available capacity on our system and leverage our limited resources. This is only possible by working together with communities and other partners. WSDOT recognizes city and county plans as the cornerstone of community decision-making. Therefore, we think it is important for WSDOT to participate, listen to and understand these goals and plans, and share WSDOT strategies and policies for implementing a multimodal transportation system.

Four alternatives are currently under review. WSDOT endorses Alternative 1, as this alternative would not change the current UGA boundaries, policies and regulations as adopted in 2007 and updated to July, 2014. More information is needed for WSDOT to make a determination regarding Alternative 3. However, it appears that Alternative 2 and Alternative 4 would have a significant impact on the state highway system. As noted in this document, these alternatives have a high potential for impacts to the transportation system, due to the great potential for more intensive development spread across a larger geographic area. This DSEIS states that full development under these alternatives would not happen quickly, but incrementally over the planning period. However, the cumulative impact of adding additional transportation facilities to support development allowed under these alternatives could be significant, and would change the character of rural Clark County. It also points out that these infrastructure costs could be prohibitive to the county. Due to limited funding, WSDOT will be challenged in the future to provide the needed infrastructure to provide an adequate level of service for Alternatives 2 and 4.

Therefore, WSDOT respectfully requests that Clark County perform a traffic study of all of the alternatives before a preferred alternative is selected. This study should be adequate to allow the county to make an informed decision by seeing the potential impacts of these alternatives. It should also be able to allow WSDOT and other public agencies to provide a proper response to these proposed alternatives before a preferred alternative is selected. WSDOT also requests that the comment period for the DSEIS be extended to a date after the transportation study is completed. This comment period should be set to allow sufficient time for WSDOT and other public agencies to incorporate the study in the review and comment on the DSEIS.

These comments are based on a review of the DSEIS, and are preliminary only. WSDOT will likely provide additional comments as the 2016 Comprehensive Growth Management Plan Update continues through the development process.

Thank you for providing the opportunity to comment on this document. If you have need of additional information, please contact Mr. Ken Burgstahler, Southwest Region Planning Office, at (360) 905-2052.

Sincerely,

A handwritten signature in black ink, appearing to read 'M. Williams', with a long horizontal line extending to the right.

Michael A. Williams  
Southwest Region Planning Manager

MAW: kb

cc: Board of Clark County Councilors

## Schroader, Kathy

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**From:** Orjiako, Oliver  
**Sent:** Thursday, August 27, 2015 4:55 PM  
**To:** Euler, Gordon; Alvarez, Jose  
**Cc:** Schroader, Kathy  
**Subject:** FW: Prime Resource Soils in the DSEIS - For the Public Record

FYI. Please, Kathy for index! Thanks.

Oliver

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**From:** Carol Levanen [<mailto:cnldental@yahoo.com>]  
**Sent:** Thursday, August 27, 2015 2:14 PM  
**To:** Mielke, Tom; Stewart, Jeanne; Madore, David; Orjiako, Oliver  
**Subject:** Prime Resource Soils in the DSEIS - For the Public Record

Clark County Board of  
Councilors  
P.O. Box 5000  
Vancouver, Washington 98666

August 27, 2015

Dear Councilors,

CCCU is carefully reviewing the colored maps to the DSEIS, and we are shocked over what we are seeing. Does this ESA company know what they are doing? The DSEIS text is so vague that, until one goes to the maps, one does not understand the impact of the changes. The Councilors need to scrub the data and demand scientific evidence to support the agriculture, forest and septic maps. Specifically on page 8 of the NRCS soils manual it states, ***Cinebar Series - These soils occur in the northeastern part of the county on hilly uplands and old terraces, which are dissected by many creeks and drainageways. The native vegetation is a heavy growth of Douglas fir .....Cinebar soils are among the highest producing timber soils in Clark County. "Most of this soil is used for Douglas fir." "This soil is used for Douglas fir"*** On the EIS maps, they designate the Cinebar soils as poor forest soils, which clearly demonstrate that the GMA requirement to use the NRCS Soil Manual was ignored. In the production charts of the Manual, one will see that the production capability of the prime soils of Hillsboro Loam for agriculture and Cinebar Loam for forest, is twice the production as the other soils. Yet, the county maps have those soils indicated as poor soil for the resource. In addition, the production rates in the NRCS Manual for soils, show that what the county indicates as prime soils for both agriculture and forest, is actually very low throughout the maps. The GMA intended that prime soil be used because the production rates are so much higher than other soils, and often as much a twice as high. The GMA mandates that preservation of resource land is for the purpose of making money well into the future. That is why it says that prime soil is to be determined first, as one cannot expect to be productive and make money in the resource, unless there is a good foundation for the crops. This is of most importance to any farmer or forester, because they want to make money on the land. Before they buy land for the resource, they first look at the soil. This basic concept is what the GMA bases resource designations on. In reality, all soil can grow something, because that is what it does, but to call it something different than what it is and what the GMA has mandated in a Comprehensive Plan, is illegal.

Sincerely,

Carol Levanen, Ex. Secretary  
Clark County Citizens United, Inc.  
P.O. Box 5000  
Battle Ground, Washington 98604

## Schroader, Kathy

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**From:** Orjiako, Oliver  
**Sent:** Monday, August 31, 2015 8:26 AM  
**To:** Euler, Gordon; Alvarez, Jose  
**Cc:** Schroader, Kathy  
**Subject:** FW: Hearings Board Remand 1996 - For the Public Record

Just FYI and Kathy for the index. More to come! Thanks.

Oliver

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**From:** Carol Levanen [<mailto:cnldental@yahoo.com>]  
**Sent:** Monday, August 31, 2015 12:25 AM  
**To:** Stewart, Jeanne; Madore, David; Mielke, Tom; Orjiako, Oliver; McCauley, Mark  
**Subject:** Fw: Hearings Board Remand 1996 - For the Public Record

Dear Councilors,

This 1996 WWGM Hearing Board Remand demonstrates that all of Judge Edwin Poyfair's orders were not followed. Instead, the Board isolated the remand to just Agri-Forest and Rural Centers and ignored action on the other orders handed down by the Superior Court. They timed this remand decision to happen just after the Court of Appeals decision of 1999, counting on CCCU's attorney not being available to protest the remand action. CCCU believes that the Clark County 1994 Comprehensive Land use Plan was the most corrupt process of any county in the state, except perhaps Seattle. The Plan in place today, is the same plan that was adopted in the rural and resource land in 1994. It has never been changed and after over twenty years, legitimate changes must be made.

Sincerely, Carol Levanen, Ex. Secretary, CCCU, Inc.

----- Forwarded Message -----

**From:** Carol Levanen <[cnldental@yahoo.com](mailto:cnldental@yahoo.com)>  
**To:** Carol Levanen <[cnldental@yahoo.com](mailto:cnldental@yahoo.com)>; Susan Rasmussen <[sprazz@outlook.com](mailto:sprazz@outlook.com)>  
**Sent:** Friday, August 28, 2015 6:03 PM  
**Subject:** Hearings Board Remand 1996

<http://www.gmhb.wa.gov/searchdocuments/wwgmhb/1995/95-67complianceorderandinvalidityremand.pdf>

**BEFORE THE WESTERN WASHINGTON GROWTH  
MANAGEMENT HEARINGS BOARD**

|   |   |               |
|---|---|---------------|
| ACHEN, et al.,                          | ) |               |
|   | ) | No. 95-2-0067 |
| Petitioners,                            | ) |               |
| vs.                                     | ) | COMPLIANCE    |
|   | ) | ORDER AND     |
| CLARK COUNTY, et al.,                   | ) | ORDER OF      |
|   | ) | INVALIDITY    |
| Respondents,                            | ) |               |
|   | ) |               |
| and                                     | ) |               |
|   | ) |               |
| CLARK COUNTY SCHOOL DISTRICTS, et al.,  | ) |               |
|   | ) |               |
| Intervenors.                            | ) |               |
| <hr style="width:60%; margin-left:0;"/> |   | )             |

On September 20, 1995, we issued our original final decision and order (FDO) in the above-entitled case. An order on reconsideration was issued on December 6, 1995. No appeal of that decision was filed by Clark County. After the time for compliance had expired, multiple hearings regarding compliance took place. We issued a compliance order on October 1, 1996. That order found certain areas of continued noncompliance. For the first time in Clark County, a finding of invalidity was made. After a hearing, an order on reconsideration was issued on November 20, 1996.

Clark County appealed certain aspects of the October 1, 1996, compliance/invalidity order as modified by the order on reconsideration. The County also appealed parts of the original FDO of September 20, 1995.

On December 31, 1997, Clark County Superior Court issued a judgment in the appeal. The Court held that we had improperly placed the burden of showing compliance upon the local government and remanded the case to assign the burden of proof to the petitioners to show lack of compliance. The Court further held that, in spite of our assignment of the burden of proof for invalidity to the petitioners, invalidity also had to be reconsidered. Additionally, the Court

determined that Clark County's appeal of issues determined in the original FDO of September 20, 1995, was untimely.

On January 6, 1998, we issued a memorandum to all parties listing the six issues of remand from the Superior Court decision. The memorandum stated that we would review the record in light of the Court's order and that we intended to use the recent amendments adopted by ESB 6094 in reaching our decision. We established a January 20, 1998, deadline for submission of further written argument. We received an 8-page statement from petitioner Clark County Natural Resource Council (CCNRC), *et al.*, and a two-paragraph letter from Clark County. No party objected to our use of the ESB 6094 amendments.

The first paragraph of the County's letter requested that we take official notice of the appeal trial briefs concerning "the deference issue breached by Judge Nichols only in dicta." We decline that invitation. Even assuming that the briefing constitutes material which might be the subject of official notice under the standards provided by our rules and the Administrative Procedures Act, we do not find that the briefing would be of any assistance in this matter. As noted by the County in its letter, the deference issue was addressed only in dicta. More importantly, we are issuing this decision based upon the increased deference provided by ESB 6094. Specifically, under RCW 36.70A.320 we are placing the burden on the petitioners to show noncompliance under the clearly erroneous standard. We are also applying the increased deference directed by RCW 36.70A.3201. See *CCNRC, et al., v. Clark County*, #96-2-0017. We do not have any authority to select a greater deference standard.

The second paragraph of the January 20, 1998, Clark County letter noted that the record, as it existed at the time of appeal, "does not contain the additional work the County undertook regarding resource buffering." The County assumed that such material was not relevant to this Superior Court remand decision. We accept the County's characterization.

We thus turn to the five items of remand from Superior Court. We have reviewed the record and the written arguments that were presented for the hearing leading to the October 1, 1996, compliance order and the November 20, 1996, order on reconsideration. We have assigned the burden of proof to petitioners to establish that the actions of Clark County failed to comply with

the Growth Management Act (GMA) under the clearly erroneous standard of review. We have presumed that the legislative actions taken by the County in response to the compliance issues were valid under RCW 36.70A.320. We have incorporated the legislative direction of RCW 36.70A.3201 setting forth the deference due a local government in reviewing GMA decisions. As we have always done, we have reviewed this record to determine if Clark County is in compliance with the Act, not simply whether there is compliance with the order of September 20, 1995.

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-  
Non-Prime Industrial Designations Within Urban Reserve Areas (URAs)

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Beginning at page 42 of the FDO, we discussed the confusion found in the record concerning industrial designations that were other than “prime.” Those designations included some 5,000 acres within the urban growth area (UGA) of Vancouver and approximately 1,000 acres within the URA industrial designations. URAs were designed to incorporate quality planning for the post 20-year horizon. The industrial URAs were also designed to have in place designated areas for a large-scale industrial user who would be unable to find a suitable location within UGAs. In the FDO, we determined that a recalculation of the confusing figures was necessary and that those figures needed to show the amount of secondary or tertiary (non-prime) industrial designations. We held that inclusion of these non-prime designations in the URAs did not comply with the Act.

Beginning at page 16 of the compliance order of October 1996, we noted that recalculation and clarification of many of the industrial acreage figures had been done for areas within the Vancouver UGA. However, nothing in the record nor in the arguments presented by the County, addressed the issue of the 1,000 acres of non-prime industrial designation within the URA. At page 6 of the reconsideration order of November 20, 1996, we recognized that a clarification of the compliance order as to this issue was necessary and did so. We clarified that if the urban reserve designations of “non-prime” industrial in fact referred only to those areas that would be “prime” except for lack of access or utilities, the designation would likely comply with the Act. With that clarification, we nonetheless continued our finding that there was no evidence in the record that the County had taken any action in response to the original determination of

noncompliance or inclusion of non-prime industrial designations within the URA. We have not received information from the County as to clarification of this issue.

We specifically hold that the petitioners have sustained their burden of proof of showing noncompliance as to inclusion of non-prime industrial designations in URAs even under the increased deference accorded to Clark County. Since there was no legislative action by Clark County in response to the original order of noncompliance, there is no presumption of validity to apply.

### Future Adjustments to UGAs

At page 40 of the FDO we held that the fluid nature of the Clark County UGAs was not in compliance with the Act. Specifically, we said that the County's "concept of incremental movement of the urban growth boundary to always have a 20-year planning horizon is not in compliance with the GMA." In response, Clark County adopted Ordinance 1995-12-19. That ordinance provided that a UGA would be expanded if 75% of the residential or commercial vacant land had been consumed or if only 50% of the industrial designated vacant land was consumed. We discussed that problem in the compliance order of October 1, 1996, beginning at page 11. We held that the amendment did not contain necessary requirements for when a change to UGA designations was appropriate and thus did not comply with the Act. We reach that same conclusion and finding when assigning the burden of proof to petitioners under the clearly erroneous standard. While we presumed that Ordinance 1995-12-19 was valid, a close review of it leads to the inescapable conclusion that it does not comply with the Act. The large UGAs with maximum market factors that were established in conjunction with the maximum possible population projections leads us to conclude under the test set forth in RCW 36.70A.302 that the ordinance substantially interferes with the goals of the Act.

We are mystified by the inclusion of this issue in the December 31, 1997, Superior Court remand. In the December 17, 1997, second compliance order we determined, at page 3, that the revised ordinance which provided for a minimum five-year period prior to revision of the UGAs and which also established criteria for the consideration of UGA movement, was in compliance with the Act. Under state law, we were not a participant in the Superior Court appeal except as to

jurisdictional and procedural issues. We can understand how the Superior Court would not be aware of the December 17, 1997, order finding compliance on what appears to be this exact issue. We are unable to find a reason why the County insisted on including that issue in the December 31, 1997, Superior Court order. The two-paragraph letter we received from the County on January 20, 1998, did not address why it was remanded, nor did the 8-page statement submitted by petitioner CCNRC *et al.*, who were also active participants in the Superior Court appeal. In what appears to be an unfortunate developing pattern, we will have to wait for the County's motion for reconsideration before understanding what issues the County wishes us to address. We would be amenable to a motion from Clark County to rescind the invalidity of CCC 18.610, a request that was not made at the compliance hearing that led to the December 17, 1997, order.

#### Minimum Density North of the Resource Line

Beginning at page 26 of the FDO, we set forth a full discussion of the need for minimum lot sizes larger than 5 acres north of the "rural resource line" (the east fork of the Lewis River). The original Farm Focus Group, Clark County planning staff, and the Planning Commission (PC) all noted that significantly less parcelization of rural lands had taken place north of that line. The Farm Focus Group concluded that a 10-acre minimum lot size north of that line would further the community framework plan (CFP) and comprehensive plan (CP) policies of "providing large minimum lot sizes for residential development in rural areas to maintain the rural character. (CFP 4.2.3) We observed that the final supplemental environmental impact statement recommended a preferred 15-acre minimum lot size north of that line. The planning department recommended a 10-acre minimum north of the line which was agreed to by the PC. The record contained significant evidence concerning the relationship of a larger than 5-acre minimum lot size to current resource activity and the necessity of buffering within that area. The Board of County Commissioners (BOCC), without support in the record, established a 5-acre minimum lot size for all rural areas that ignored the differences between the area north of the resource line and that to the south and west. In the FDO we noted that in order to comply with the Act, Clark County needed to "increase the minimum lot sizes of rural areas located north of the 'rural resource line'." We held that the larger than 5-acre minimum lot size was necessary to comply with the GMA requirement of a "variety of rural lands" and would have the added compliance effect of reducing increased urban and rural sprawl resulting from the high amounts of

preexisting lots less than 5 acres in size. Additionally, the larger than 5-acre minimum lot sizes within the area north of the rural resource line also provide needed buffering for that area's resource designations. As noted by the Superior Court in its December 31, 1997, order, the County did not timely appeal those holdings.

The issue in this subsection is whether the County took appropriate action to comply with the Act. Petitioners have shown under the clearly erroneous standard that the County is still not in compliance with the Act. In response to this non-appealed order, the County produced two maps illustrating rural parcels greater than 10 acres and segregations that had occurred prior to the moratorium imposed on April 19, 1993. Additionally, a table was developed (Ex. 20, Ex. 241) listing the parcels which were *adjacent to or within 100 feet* of resource lands. The table demonstrated that something around 8% of that very limited area would be affected by an increase to 10 acres. The table has very limited applicability to the issue of area-wide buffering (discussed later) and did not in any way address any of the issues that led to the original staff, Farm Focus Group, and PC recommendation to have a larger than 5-acre minimum lot size within the confines of the area north of the rural resource line. The FDO required an increase from 5 acres but did not mandate a 10-acre minimum.

The BOCC also adopted Section 35(9) of Ordinance 1996-5-01 that "confirms" the 5-acre minimum lot size north of the east fork of the Lewis River. While we question the logic of applying a presumption of validity to an ordinance that merely restates what we have already found to be noncompliant with the Act, in order to give every possible degree of deference to the County on this issue, in our reconsideration we presumed that the restated ordinance was valid.

We have a definite and firm conviction that the County has made a mistake in not changing the minimum lot size north of the resource line and that petitioners have sustained their burden of showing that the County is not in compliance with the Act. The additional analysis shown by the maps still leads us to the inescapable conclusion that a greater variety of rural densities, a decrease in urban and rural sprawl, and an increase in resource land conservation would be achieved by greater than 5-acre minimum lot sizes within this area and is necessary to comply with the Act. The table addresses a very limited aspect of our holding in the FDO and even within that limited aspect (resource buffering) only addresses lots that are adjacent to or within

100 feet of the resource designations. Clark County has not complied with the Act by its failure to increase the minimum lot size north of the resource line. We further find that the County's inaction substantially interferes with the goals of the Act.

### Resource Buffering

In our FDO, we directed that in order to comply with the Act Clark County needed to:

“3. Adopt techniques to buffer resource lands in accordance with the CFP and GMA. Strong consideration must be given to aggregation of non-conforming lot sizes as well as other techniques to reduce the impact of the parcelizations that occurred between 1991 and 1994. Adopt development regulations that prevent incompatible uses from encroaching on resource land areas;...”

We determined that inadequate buffering of resource lands by Clark County had not complied with the Act. At page 28 of the FDO we noted that:

“One of the most symbiotic relationships is the one between rural and resource lands. Properly planned rural areas provide necessary support of and buffering for resource lands....”

Clark County did not appeal that determination.

In response to our finding of noncompliance as to this issue, Clark County adopted Section 35 (10) of Ordinance 1996-05-01 which stated that the County determined aggregation of nonconforming lots would be largely “ineffective.” While we again have doubts as to whether this ordinance is one that is intended by the Legislature to be given a presumption of validity under RCW 36.70A.320, we will do so in an abundance of deference. The County also relied upon the conclusory statements from the then Planning Director, Mr. Greenleaf, that other techniques suggested by members of the public would be inappropriate for Clark County. As to those issues identified in the FDO, the County took no action whatsoever. Even placing the burden of proof on the petitioners under the clearly erroneous standard, we find that no action was taken by Clark County and that noncompliance remains.

The legislative action that was taken involved changes in three areas. First, the County changed

the provisions of CCC 18.302.095(B)(1)(6) to allow greater reconfiguration of existing nonconforming lots. The particular cited section actually allows more nonconforming lots because the standard was changed from “buildable lot” to “reasonable buildable lot.” Additionally, under the amended provisions, the reconfiguration would allow smaller “urban-sized” lots.

Secondly, the County changed its requirements to reduce side and rear setbacks in resource zones from 200 feet to 50 feet. Thirdly, for “urban-sized lots” (single family and multiple family zones) that abut resource areas, staff recommended increasing buffer widths to 50 feet for the single family zones. The PC recommended that a 50-foot buffer also apply within multi-family zones. The BOCC did neither but instead adopted an ordinance that reduced the buffering (landscaping) areas for “urban-sized lots” abutting resource zones to as little as 5 feet. The GMA mandate to conserve resource lands and discourage incompatible uses (RCW 36.70A.060, RCW 36.70A.020 (8)) continues to be violated and exacerbated by these actions of Clark County.

The allowance and encouragement of “urban sized lots” abutting a resource zone is not in compliance with the Act. If there is nothing a County can do to eliminate those kinds of lots because of prior vesting, some action to effectively buffer, and keep the conversion pressure away from, the resource lands is required under the GMA.

Assigning the burden of proof to petitioners under the clearly erroneous standard, applying the increased deference as a result of ESB 6094, and presuming the legislative changes are valid, we have, nonetheless, reached the inescapable conclusion that Clark County has failed to comply with the GMA.

### Invalidity

In the December 31, 1997, order the Superior Court determined that since the burden of proof as to compliance had incorrectly been assigned to the County, the order on invalidity would also be set aside. The Court did not address the merits of the order of invalidity and made its determination in spite of our assignment of the burden of proof on invalidity to petitioners. We consider the burden of substantial interference to be one that is even higher than the clearly

erroneous standard. The Court directed that we reconsider our determination of invalidity with regard to CCC 18.610, 18.302, and 18.305.

At page 28 of the October 1, 1996, compliance order we said that:

“Specifically, CCC 18.302, 18.303, and those sections of Ordinance 1996-05-01 relating to resource lands, rural lands, and urban reserve areas are declared to be invalid....”

While the Superior Court order does not specifically identify reconsideration of CCC 18.303, we have done so. Once again, Clark County’s two-paragraph letter of January 20, 1998, did not address why that particular section previously declared to be invalid was omitted from the Court order, nor did the 8-page memorandum of petitioners CCNRC, *et al.*

The CCNRC, *et al.*, memorandum requested that the noncompliance and order of invalidity be left in place. With regard to the order of invalidity at many different portions of the memo, CCNRC, *et al.*, requested that the invalidity be “supported by detailed findings of fact and conclusions of law.” Unfortunately, the memo did not specify what “detailed” findings petitioners felt should be included in this remand decision, nor did they suggest the areas wherein additional findings or conclusions would be of assistance to the Court, and, as usual, did not specifically set forth proposed findings or conclusions. Any specificity by CCNRC *et al.*, would have provided some clue why, and which, detailed findings were felt to be necessary.

We decline to review this record in more detail than has already been done during this remand consideration. We readopt the portions of the October 1, 1996, order, and the findings and conclusions in the appendix, dealing with invalidity as the ones appropriate to this remand compliance order. Specifically, we determine that a finding of invalidity under the standard set forth in RCW 36.70A.302 as to CCC 18.302, 18.303, 18.305, and those sections of Ordinance 1996-05-01 relating to resource lands and rural lands substantially interferes with goals 1, 8, 9, and 10 of the Act. Additionally, we reaffirm the invalidity as to CCC 18.610, although as noted above, a motion from the County for rescission of that finding would seem appropriate.

-  
**ORDER**

We remand this matter to the County to comply with the GMA within 150 days for the following areas:

1. Policies and development regulations (DRs) relating to future adjustments to UGAs (if different issue than the December 17, 1997, order);
2. Policies and DRs to eliminate non-prime industrial designations in urban reserve areas as set forth in the November 22, 1996, order on reconsideration;
3. Increase of the minimum density in rural areas north of the east fork of the Lewis River to an appropriate size that is greater than 5 acres;
4. Develop policies and DRs designed to buffer resource lands and limit encroaching development in rural and resource areas.

This is a Final Order under RCW 36.70A.300(5) for purposes of appeal.

Pursuant to WAC 242-02-830(2), a motion for reconsideration may be filed within ten days of issuance of this decision.

So ORDERED this 5<sup>th</sup> day of February, 1998.

WESTERN WASHINGTON GROWTH MANAGEMENT HEARINGS BOARD

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William H. Nielsen  
Board Member

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Les Eldridge  
Board Member

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Nan A. Henriksen  
Board Member

## Schroader, Kathy

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**From:** Orjiako, Oliver  
**Sent:** Monday, August 31, 2015 8:27 AM  
**To:** Euler, Gordon; Alvarez, Jose  
**Cc:** Schroader, Kathy  
**Subject:** FW: Rural Community Vision Statement - For the Public Record

For the record!

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**From:** Carol Levanen [<mailto:cnldental@yahoo.com>]  
**Sent:** Monday, August 31, 2015 12:10 AM  
**To:** Stewart, Jeanne; Mielke, Tom; Madore, David; Orjiako, Oliver; McCauley, Mark  
**Subject:** Fw: Rural Community Vision Statement - For the Public Record

----- Forwarded Message -----

**From:** susan rasmussen <[sprazz@outlook.com](mailto:sprazz@outlook.com)>  
**To:** Carol Levanen <[cnldental@yahoo.com](mailto:cnldental@yahoo.com)>; David Madore <[David.Madore@usdigital.com](mailto:David.Madore@usdigital.com)>  
**Sent:** Saturday, August 29, 2015 11:30 AM  
**Subject:** Re: Rural Community Vision Statement

1. Encourage an economic climate that enables our rural communities to find family wage jobs within the rural area.
2. Protection of private property rights of landowners.
3. Ensure adequate housing that fulfills the housing needs and lifestyles of all segments of the county's population
4. Future development that will compliment and enhance historic patterns of development
5. Respect rural cultural practices
6. Acknowledge local trends in the agricultural and forestry industries
7. Enhance rural quality of life

Sent from Windows Mail

**From:** [Carol Levanen](#)  
**Sent:** Friday, August 28, 2015 6:23 PM  
**To:** [susan rasmussen](#)

## Schroader, Kathy

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**From:** Orjiako, Oliver  
**Sent:** Monday, August 31, 2015 8:29 AM  
**To:** Euler, Gordon; Alvarez, Jose  
**Cc:** Schroader, Kathy  
**Subject:** FW: Alt. 4 supports a variety of parcel sizes for small-scale farming - For the Pubic Record

More!

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**From:** Carol Levanen [<mailto:cnldental@yahoo.com>]  
**Sent:** Monday, August 31, 2015 12:06 AM  
**To:** Mielke, Tom; Stewart, Jeanne; Orjiako, Oliver; Madore, David  
**Subject:** Fw: Alt. 4 supports a variety of parcel sizes for small-scale farming - For the Pubic Record

----- Forwarded Message -----

**From:** susan rasmussen <[sprazz@outlook.com](mailto:sprazz@outlook.com)>  
**To:** Carol Levanen <[cnldental@yahoo.com](mailto:cnldental@yahoo.com)>; David Madore <[David.Madore@usdigital.com](mailto:David.Madore@usdigital.com)>  
**Sent:** Saturday, August 29, 2015 10:48 AM  
**Subject:** Re: Alt. 4 supports a variety of parcel sizes for small-scale farming

Major Land Use Considerations: Clark County has traditionally supported small-scale agriculture activities by ensuring a variety of various parcel sizes.

Large scale commercial agricultural operations continue to decline, however, changes in agriculture activities to vineyards, nurseries, berries, and organic produce have been evolving. This agriculture shift reflects the larger changes happening throughout the entire state. Many of the new agricultural activities can and are occurring on smaller parcels (reference 2012 Ag. Census). Indeed, Clark County has always been a haven supporting small-scale farming (1950 Ag. Census). The long-term changes in agricultural operations will be influenced in large part by the economic and market demands. It is Clark County's tradition to provide for a wide variety of farming opportunities by ensuring a variety of various parcel sizes.

Sent from Windows Mail

---

**From:** [Carol Levanen](#)  
**Sent:** Friday, August 28, 2015 6:23 PM  
**To:** [susan rasmussen](#)

**Schroader, Kathy**

---

**From:** Orjiako, Oliver  
**Sent:** Monday, August 31, 2015 8:30 AM  
**To:** Euler, Gordon; Anderson, Colete; Alvarez, Jose  
**Cc:** Schroader, Kathy  
**Subject:** FW: Smart Growth and New Urbanism

More for the index!

---

**From:** Carol Levanen [<mailto:cnldental@yahoo.com>]  
**Sent:** Monday, August 31, 2015 12:00 AM  
**To:** Stewart, Jeanne; Mielke, Tom; Madore, David; McCauley, Mark; Orjiako, Oliver  
**Subject:** Smart Growth and New Urbanism

Dear Councilors,

Why is Smart Growth.org and New Urbanism.org on Clark County's web page?

[Healthy communities - Commission on Aging - Community Planning - Clark County Washington](#)



## Healthy communities - Commission on Aging - Communit...

Features of a community either contribute to or decrease one's ability to live independently, safely and comfortably.

View on [www.clark.wa.gov](http://www.clark.wa.gov)

Preview by Yahoo



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- [Supportive services](#)
- [Speakers bureau](#)
- [Aging Readiness Plan](#)
- [Contact us](#)



**CLARK COUNTY  
Community Planning**

*Planning for Clark County's promising future*



**Commission on Aging  
Healthy communities**

Features of a community either contribute to or decrease one's ability to live independently, safely and comfortably.

Well-planned communities offer plenty of housing choices and nearby services so we, relatives and friends do not have to leave behind the people and places we know and love as we age and our circumstances change.



The task force identified four key areas that are essential in achieving healthy communities.

1. Complete neighborhoods
2. Access to parks, recreation and open space
3. Access to healthful food
4. Access to information

**Healthy Communities work committee**

To assist our communities in becoming healthier environments, the Healthy Communities work committee is working on the strategies listed in Chapter 1 (PDF) of the Aging Readiness Plan. See below for their current project.

**Current project**

- **Marrion/Burton Ridge/Forest Ridge healthy and age-friendly neighborhood pilot**

**Want to get involved?**

If you are interested in participating with the Healthy Communities work committee, please contact staff at [comm-aging@clark.wa.gov](mailto:comm-aging@clark.wa.gov) or 360-397-2280 ext. 4913.

**Related information**



Find us on Facebook

- Regional Equity Atlas
- 50 and Better Activities - Vancouver-Clark Parks and Recreation
- Clark County Public Health
- Clark County Community Choices
- Smart Growth
- New Urbanism
- EPA - Building Healthy Communities for Active Aging
- Centers for Disease Control and Prevention - Healthy Aging

**Find it**

Having trouble finding what you are looking for?

- **A-Z index** - All services and programs are listed.
- **Contact us** on the phone during business hours or by email any time.

Last updated: 12/12/2013 15:08:47

## Schroader, Kathy

---

**From:** Orjiako, Oliver  
**Sent:** Monday, August 31, 2015 8:32 AM  
**To:** Euler, Gordon; Anderson, Colete; Kamp, Jacqueline  
**Cc:** Schroader, Kathy  
**Subject:** FW: Health Element - For the Public Record

Interesting! Kathy , please for the record. Thanks.

Oliver

---

**From:** Carol Levanen [mailto:cnldental@yahoo.com]  
**Sent:** Sunday, August 30, 2015 11:26 PM  
**To:** Madore, David; Stewart, Jeanne; Mielke, Tom; Orjiako, Oliver; McCauley, Mark  
**Subject:** Health Element - For the Public Record

Clark County Board of Councilors  
P.O. Box 5000  
Vancouver, Washington 98666

August 30,m 2015

Dear Councilors,

For the Public Record

County staff is presenting this information to the public on Monday, August 31, 2015 This whole document needs to be thrown out as it has no place in the Comprehensive Plan. [http://www.clark.wa.gov/public-health/community/growing\\_healthy/documents/GrowingHealthierReport23Mar2012-1.pdf](http://www.clark.wa.gov/public-health/community/growing_healthy/documents/GrowingHealthierReport23Mar2012-1.pdf)

Re: Growing Healthy - Planning for a Healthier Clark County - Clark County Public Health Advisory Council and Clark County Public Health - April 2012

Clark County Citizens United, Inc. has just reviewed a document intended for the Clark County Comprehensive Plan, in a new element proposal called the Health Element. The Growth Management Act does not subscribe to such an element in it's directives, but staff is attempting to include it. Most of the information, people would subscribe to because it all sounds fluffy and nice. Who wouldn't want to encourage healthy living. But, hidden in the document is a very different story. The document says that if the county just makes people live in the cities, they would all be healthier. It claims that those not living there, don't have a "healthy foods store" in their back yard, so therefore, their health will suffer. In reality, homeowners commonly plant fruits and vegetables as part of the landscape or in pots or small gardens. They plant healthy foods they like to eat and only as much as they personally need. By comparison, rural children and adults are far healthier than urban families, because they also have lots of fresh air and natural exercise. By adding regulation to a Comprehensive Plan, doesn't mean it will happen. Trying to force people to walk, ride transit or ride a bike as a mode of transportation, is folly. In a free country, people decide what they want, as long as it is not illegal or immoral. The underlying theme and goal of this document is to "preserve" or lock up, rural land, prevent it's development, force people to live in the cities and increase density in urban areas. The creative way this document is written, shows the determination of the staff ,with it's agenda.

One interesting passage was the way people, who will be manipulated, is phrased. It reads, "A key indicator of human capital is educational attainment. Dense human capital attracts more human capital....." So now we are all capital, or things or money to be exchanged. Those without a higher education are now of lesser value, than those with high degrees. This is hogwash. There are many Clark County residents who are very rich and successful business men and women, minus any college degree. This whole passage in the document is degrading. There is no difference between a high school graduate and a doctor, except years and a desire for a particular profession that requires those years.

The following information are excerpt of the "Health Element".

The Health Element of the Comprehensive Plan identifies important changes to our built environment... Food Deserts in Clark County - 2011 - indicates that all areas outside the urban areas don't have access to healthy food.

Page 2 of 3

Page 8 - In addition to convenient retail access, residents need a secure food source through local land dedicated and protected for agriculture.

Page 9 - 1.1.2 - ...use zoning...to limit the density of unhealthy food..(what is called areas of "food desert", which is all areas, except the cities)

2.2.2 - ...use zoning...to limit the density of unhealthy food (areas of food desert)

Page 10 - Protect resources that enhance community food security. By 2015, the county will adopt a local agriculture protection plan.

3.1.3 - Require....community gardens through dedications, easements or impact fees.

3.2 - Develop policies to protect and preserve rural agriculture

Page 12 - Active Transportation - Walking - Most walk able areas is downtown Vancouver.

Note - (What about the private walking paths on private property?)

Page 13. - Clark County is dominated by drivable suburban development.

(And people like it that way.)

Page 17 - 1.1.1 - Adopt a complete streets ordinance

1.1.3 - Adopt active transportation checklist for development review

Note - (Active transportation includes only walking, biking or transit)

1.2 - Manage...demand to minimize automobile travel.

1.2.1 - Adopt parking minimums

1.2.2 - Manage parking demand through pricing

1.3.2 - Re-allocate existing transportation funding for active transportation.

2.1.2 - Increase residential densities minimums

Page 18 - 2.4.2 - Prohibit future constructions of Cul-de-sacs

Note - (Cul-de-sacs are the most desirable housing choice and the most walkable areas in the county. People can walk in a safe connected neighborhood.)

Page 26 - Smart growth strategies increase economic opportunities, compact development./...

Page 28 - 1.2 - Prioritize preservation of farm land...

1.3 - Foster increased density of human capital.

Page 29 - 4.2 - Direct development toward smaller housing units in high density settings

4.3 - preserve. natural...resources

4.5.1 - Prioritize infrastructure that increases non-auto travel

Page 32 - Chart that shows that unhealthy housing with mold and radon are located in Vancouver, Washington.

Page 3 of 3

Page 34 - 2.1.2 - Use zoning and development to direct housing units into cities.

3.2.1 - Increase residential densities

Page 41 - Climate Change - By 2015, Clark County will implement strategies to sustain farmland

3.2.2 - Restore and retain all existing farmlands....

3.2.3 - By ordinance, restore and retain farms and protect agricultural lands from development

Page 44 - Environmental Quality - High cancer risks are predominant in Vancouver Washington.

Page 47 - 1.1.1 - Reduce dependence on autos by land use policies....

Page 50 - Safety - Social - The majority of crimes committed in the county are in the city of Vancouver, Washington.

Page 76 - 4.1.2 - Work with property owners...to reduce water contamination from activity that produces toxic substances

4.2.2 - Monitor water resource.....aggressive conservation efforts.



# Growing Healthier

## Planning for a healthier Clark County

Clark County Public Health Advisory Council  
and Clark County Public Health  
April 2012



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## Forward

Clark County Public Health has defined its mission as working together with the community to:

- Prevent disease and injury
- Promote healthier choices
- Protect food, water and air
- Prepare for emergencies.

For many years the Public Health staff, the Public Health Advisory Council and Board of Health have sought ways to achieve this mission, but challenges remain. Despite the fact the United States spends more on health care, we have fallen behind other developed countries as gains in life expectancy have stagnated. We know that one cause of this decline is obesity, a major risk factor for chronic conditions such as diabetes, heart disease, and cancer. Two out of three adults in Clark County are now overweight or obese, and the current generation of young people could be the first in American history to live shorter, less healthy lives than their parents. The costs to our community, our economy, and our well-being make it critically important to understand how these and other chronic diseases become so entrenched.

Our built environment, meaning the physical characteristics of the neighborhoods, towns, cities or rural areas in which we live, influences our health in countless ways. Research shows that our surroundings have a greater impact on our overall health than medical care. That's why we've undertaken the development of a Health Element for the County Comprehensive Plan. *The Growing Healthier Report* identifies important changes to our built environment that will make healthy choices easier and increase opportunities for long, healthy lives.

Our county will continue to grow over the coming twenty years that

this Comprehensive Plan update will cover, as we add over 140,000 new neighbors. This is an important opportunity for Clark County, a chance to change course and to build our communities so that they promote better health for us all. It is ultimately up to the community to choose how we grow, how we accommodate new development, and what value we place on promoting health. We hope this report provides you with information that will help guide those critical decisions.

As you read the *Growing Healthier Report* and participate in the public discussion, do not hesitate to contact Clark County Public Health if you have questions, concerns, or need additional information. You can also visit Public Health's Growing Healthier webpage at [http://www.co.clark.wa.us/publichealth/community/growing\\_healthier/index.html](http://www.co.clark.wa.us/publichealth/community/growing_healthier/index.html) to learn more or view background documents. Most importantly, you can become actively involved; these decisions will have long-term impacts on the type of community you live in, on your health and on the health of your family.

Sandy Mathewson

John Wiesman

Oliver Orjiako



# Introduction

## Purpose

Health starts where we live, work, learn, and play. Our surroundings have a profound impact on our overall health, from exposure to toxins to the ability to safely walk or ride a bicycle. The built environment of our communities and neighborhoods plays an important role in providing opportunities for Clark County residents to live long, healthy lives, and research demonstrates this connection. For example, people who live in walkable neighborhoods tend to get more physical activity, and those who live near supermarkets are more likely to eat healthy foods such as fresh fruits and vegetables. Knowing this, how can the community make decisions that help Clark County grow in a way that promotes health?

*The Growing Healthier Report* examines this question through the lens of the Clark County Comprehensive Growth Management Plan, the county's plan to guide growth and land use. In consultation with Clark County Community Planning and the Public Health Advisory Council, Clark County Public Health staff investigated the connections between the built environment and health, documented current conditions in Clark County, and examined best practices from across the country. Combined with input from a broad group of stakeholders, this research forms the basis for the report.

The report contains policy recommendations from the council on ways that the county's Comprehensive Growth Management Plan can

better address health issues. The council intends this report to aid Clark County Community Planning in updating the Plan by adding a health element for the first time.

## Overview of Clark County

### Public Health Advisory Council (PHAC)

PHAC is a group comprised of nineteen professionals in health or related fields, as well as consumers. Members are appointed by the Board of Health to advise them on issues important to the health of the community. PHAC meets monthly with Public Health staff to share information on emerging issues and to hear updates on the work of the department. This report is a product of their efforts.

### Demographics

Clark County is located in Southwest Washington and one of the state's most populous counties. Recently, Clark County has been characterized by rapid growth. From 1990 to 2010, the county grew 78% to a population of about 425,000. The county is less racially diverse than the state or the Portland metropolitan area, with a population of 89% white and 8% Hispanic. In 2010, the median household income was \$58,262, and about 11% of the population had incomes below the poverty level. About 28% of the population is under age 18, and about 11% is age 65 or older, with a median of 36.7 years.

## How to use this report

### Disparities

National data show disparities in health outcomes based on socioeconomic status, race and ethnicity, age, and geography. For example, life expectancy is lower in some zip codes, and African American women are more likely to have low birth-weight babies. Often data are unavailable to determine whether the same disparities are present in Clark County. In this report, we describe disparities using the best available data.

The report identifies eight topics that describe the connection between health and the built environment. They are interconnected

and many overlap. The eight topical sections are depicted in the diagram at the bottom left of this page.

Each section contains three subsections. The first subsection describes how each topic relates to health, including current conditions in Clark County and an overview of disparities. The second subsection summarizes findings from research literature by describing the built environment conditions needed for people and communities to thrive. The third subsection lists policy recommendations to integrate health into the next update of the Clark County Growth Management Plan. A foundation for the Growing Healthier Report was a series of technical background reports that are available at our web site (<http://www.clark.wa.gov/public-health>). These reports provide an in-depth review of each topic, and list the sources and references for the data in this report.

Additional material can be found in the appendix. The process for developing this report is documented there, including a summary of outreach and survey results. It also includes a glossary of related terms and tables linking each policy recommendation to the current comprehensive plan.



*The Growing Healthier Report* is intended as a tool to help Clark County residents understand the connection between health and the built environment. It will also inform the process of updating the Comprehensive Growth Management Plan. With your help, we can identify and implement ways to develop healthier neighborhoods across Clark County.

Please join us in growing healthier.

## Acknowledgements

Clark County Public Health is grateful for the contributions of many participants in creating *The Growing Healthier Report*. In addition to those listed below, we are thankful to all of our expert reviewers, county staff, and participants in the Growing Healthier Community Survey.

### Board of Health

Marc Boldt, Chair  
Steve Stuart  
Tom Mielke

### Public Health Advisory Council

Rainy Atkins  
Jonathan Avery, Vice Chair  
Betsy Brownfield  
Joan Caley  
Paul Childers  
Justin Clary  
Mark Collier  
Nicole Covrett  
Dr. Marilyn Darr  
Dr. Jeremy Diehl  
Dr. Dawn Doutrich  
Trevor Evers  
Joanne Huffman  
Laurie Lebowsky  
Sandra Mathewson, Chair  
Dr. Alan Melnick, *Ex officio*  
Justin Plummer  
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Jennifer Merte  
Tricia Mortell  
Melanie Payne

### Photos

Unless noted below, all photos in this report are from Clark County files. *Cover page (upper right bicyclists): Wikimedia Commons; Page 15: Wikimedia Commons; Page 21: creaindustrialarts.com; Page 22: Laurie Lebowsky; Page 35: Wikimedia Commons; Page 39: AP Photo/Tony Gutierrez; Page 40: NASA; Page 45: Wikimedia Commons.*



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Fax (360) 397-6165, E-mail [ADA@clark.wa.gov](mailto:ADA@clark.wa.gov).



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## Access to Healthy Food

Healthy food is among our most basic needs. Studies show that rates of obesity and chronic disease increase the further people live from sources of healthy food.

### How access to healthy food impacts health

#### What you eat affects your health

Eating healthy foods lowers the risk of becoming overweight or obese, key risk factors for chronic diseases such as heart disease, diabetes, and cancer. A healthy diet includes fruits and vegetables, whole grains, low-fat dairy, and fresh meats, fish, or poultry.

#### In Clark County

In 2010, 28% of Clark County adults were obese and 62% were overweight or obese. Only 22% of Clark County adults (2009) and 25% of youth (2008) ate the recommended five or more servings of fruits and vegetables each day. Fruit and vegetable consumption among youth increased from 2004-2008. In contrast, adult consumption remained unchanged from 2003-2009.

| Health Indicator   | Youth        |          | Adult        |          |
|--|--------------|----------|--------------|----------|
|  | Clark County | WA State | Clark County | WA State |
| Fruit or vegetable consumption: $\geq 5$ servings per day                              | 25%          | 25%      | 22%          | 25%      |
| Obesity (adults: BMI $\geq 30$ and 10 <sup>th</sup> graders: top 5% BMI)               | 10%          | 10%      | 28%          | 26%      |
| Overweight and obesity (adults: BMI $\geq 25$ , 10 <sup>th</sup> graders: top 15% BMI) | 22%          | 24%      | 62%          | 61%      |

#### Where you live affects what you eat

Research suggests that peoples' eating choices are strongly influenced by the food options available to them. For example, living near stores that sell healthy foods influences health. The closer you live to a grocery store, the easier it is for you to obtain fresh fruits and vegetables. Proximity to healthy food is associated with greater consumption of healthy food, and with decreased rates of obesity. Research also indicates that the mix of food offered by retailers can influence consumption of healthy foods such as low-fat milk and fresh produce. In other words, people eat more healthy foods when stores offer more of them.



*Better access to fresh produce increases the likelihood of meeting guidelines for a healthy diet.*

Living near sources of unhealthy food leads to an increased risk for obesity and chronic diseases. When fast food restaurants and convenience stores are more abundant, closer, and cheaper than grocery stores and produce stands, people are less likely and less able to maintain a healthful diet.



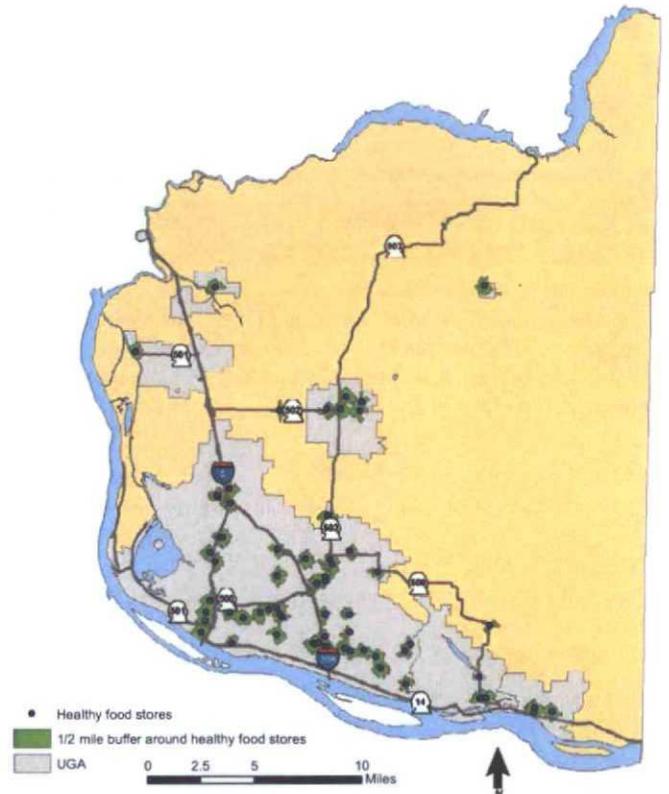
The mix of food options in your neighborhood influences your diet.

### In Clark County

Approximately 41% of residents live within 1/2 mile of a fast food restaurant or convenience store.

Only 17% of residents live within 1/2 mile of a healthy food store, such as a supermarket or farmers market.

### *Food deserts in Clark County, 2011*



Areas in green are within 1/2 mile of a farmers market produce stand, grocery store, or supermarket. Areas beyond this boundary are food deserts with no healthy food options.

### The local food system

Local food production and direct sales increase options for accessing healthy food. Creating new opportunities for farmers markets, produce stands, and community-supported agriculture are ways that we can expand access to healthy food, especially in areas that lack other options. These types of food retailers also support local, economically and environmentally sustainable agriculture, making us more resilient and less dependent on increasingly expensive food imports. Community food security refers to a condition in which all community residents have access to a safe, culturally appropriate, nutritionally sound diet through an economically and environmentally sustainable food system that promotes community self-reliance and social justice.

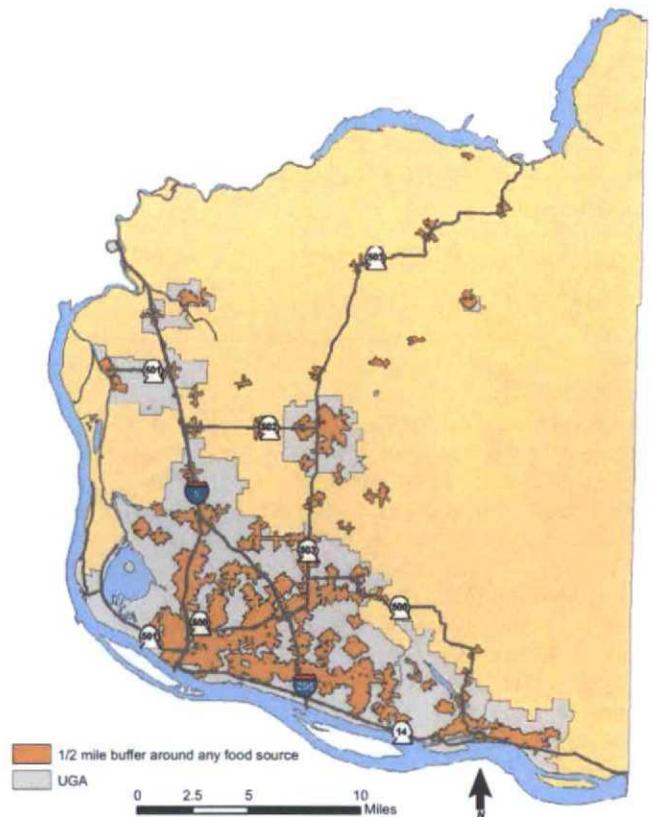
Studies on economic impacts of local food production highlight the benefits of local food production and distribution. Local food production not only increases community food security, it also boosts economic activity.



### In Clark County

The number of farms in Clark County increased from 1,175 in 1997 to 2,101 in 2007. During the same period, the average farm size shrunk from 62 acres to 37 acres, a 26% decrease. Clark County had seven farmers markets in operation in 2011.

**Absolute food deserts in Clark County, 2011**



*Areas in orange are within 1/2 mile of any food retail. Areas beyond this boundary are absolute food deserts.*

## Disparities in Clark County

Data on food access disparities in Clark County are summarized in the following table.

*Estimated percent of population within ½ mile of food sources*

| Type of Nearby Food Source     | Total population | white | Non-white | Youth (<20) | Older (≥65) | Low SES |
|--------------------------------|------------------|-------|-----------|-------------|-------------|---------|
| Healthy Food (within ½ mile)   | 17%              | 16%   | 22%       | 17%         | 17%         | 26%     |
| Unhealthy Food (within ½ mile) | 41%              | 40%   | 49%       | 41%         | 42%         | 58%     |
| Any Food (within ½ mile)       | 46%              | 44%   | 54%       | 45%         | 47%         | 62%     |

### Socioeconomic status (SES)

Whereas low SES populations in Clark County have relatively greater access to healthy food within ½ mile, they also face the highest exposure to unhealthy food. Almost 60% of low SES residents live within ½ mile of a convenience store or fast food restaurant.

### Race and ethnicity

Contrary to national trends, 22% of non-white residents in Clark County have access to healthy foods within ½ mile of their residences, a greater level of access than the white population. While this helps to counter historical health disparities, 49% of ethnic minorities also live within ½ mile of unhealthy food retail, compared to 40% of the white population.

### Age

Older and a younger age groups have similar access to healthy food, as 17% live within ½ mile of a full service grocery or market and 41% live within ½ mile of unhealthy food retail. Schools have a similar level of exposure to unhealthy food as residences, with 39% located within ½

mile of a fast food restaurant or convenience store.

### Geography

Only 5% of nearly 70,000 residents in rural Clark County live within ½ mile of any food store, and 92% live within 10 miles of a healthy food store. The ten-mile threshold meets the US Department of Agriculture standard for rural healthy food access.

## Conditions needed to thrive

Creating conditions to ensure that all Clark County residents have access to health-promoting foods is a priority for public health agencies and advocates.

To help prevent obesity and obesity-related chronic diseases, residents need convenient access to healthy food that is affordable and appropriate.

In addition to convenient retail access, residents need a secure food source through local land dedicated and protected for agriculture.

Proactive food system planning must specifically focus on land use, transportation, and economic development to build a more comprehensive approach to planning for food infrastructure.



**Related plans, policies, and reports:** Exploring the Clark County Food System, 2008; Community Report Card, 2009; Agricultural Preservation Strategies Report, 2009; Rural Lands Task Force Recommendations, 2010; Clark County Bicycle and Pedestrian Master Plan, 2010; Clark County Aging Readiness Plan, 2012

## Policy recommendations

| Goal  | Objective  | Policies & strategies   |
|---|--|---|
| 1. Maximize access to healthy foods by recruiting and retaining healthy food retail     | In 2035, 60% of residents in the UGA will be within ½ mile of healthy food retail, and all Clark County residents will be within 10 miles of a grocery store or supermarket. | <p>1.1 Improve food access in residential areas farther than ½ mile from healthy food stores in the UGA</p> <ul style="list-style-type: none"> <li>1.1.1 Identify and monitor areas lacking in healthy food availability (i.e., food deserts)</li> <li>1.1.2 Re-zone land in densely populated food deserts that lack appropriate zoning to allow healthy food retail</li> <li>1.1.3 Provide incentives for healthy food retail in underserved areas</li> <li>1.1.4 Work with rural retailers to ensure consistent access to high quality produce and connect them to local produce sources</li> <li>1.1.5 Allow seasonal or temporary healthy food retail, such as Community-Supported Agriculture (CSA), deliveries, or mobile produce vendors, especially in food deserts</li> <li>1.1.6 Prohibit restrictive covenants (non-compete clauses) that preclude food stores from using appropriately zoned land, especially those that keep new grocery stores from using vacant buildings</li> </ul> <p>1.2 Remove barriers to establishing and maintaining farmers markets; CSAs, buying clubs, farm-direct or other food deliveries, and mobile vending</p> <ul style="list-style-type: none"> <li>1.2.1 Reduce parking requirements for farmers markets and produce stands</li> <li>1.2.2 Recognize these businesses as part of the food economy and allow them as permitted uses in county and city code</li> </ul> |
| 2. Increase the availability of healthy food options relative to unhealthy food options | By 2035, density of unhealthy food in UGA census tracts will decline, while density of healthy food retail options will have increased.                                      | <p>2.1 Encourage and promote healthy options at all food establishments</p> <ul style="list-style-type: none"> <li>2.1.1 Create incentives for offering healthy food and support schools, health care, restaurants, businesses, and other institutions that develop and adopt healthy food policies and increase proportion of healthy food choices</li> <li>2.1.2 Require county agencies to fully implement adopted healthy food policies and apply local food procurement standards</li> </ul> <p>2.2 Implement measures that discourage or prohibit dense concentrations of unhealthy food</p> <ul style="list-style-type: none"> <li>2.2.1 Undertake periodic assessments of county regional food system</li> <li>2.2.2 Include assessment and planning for food access in sub-area planning processes, and use zoning or design overlays to limit the density of unhealthy food</li> <li>2.2.3 Focus on decreasing unhealthy food sources in areas that already have a high concentration of these types of stores</li> </ul>   |

| Goal  | Objective  | Policies & Strategies   |
|---|--|---|
| 3. Protect resources that enhance community food security | By 2015, the County will adopt a local agricultural protection plan. By 2035, distribution of affordable, healthy food through farmers markets will increase and all residents within the UGA will have access to a neighborhood community garden. | <ul style="list-style-type: none"> <li>3.1 Implement measures to increase the consumption and/or sale of locally-produced food <ul style="list-style-type: none"> <li>3.1.1 Support and promote current farmers markets and development of new markets</li> <li>3.1.2 Work with farmers markets to develop a measure of healthy food distribution</li> <li>3.1.3 Require or incentivize community gardens or urban agriculture space to accompany new development through dedications, easements, or impact fees</li> <li>3.1.4 Establish community gardens in existing parks and open spaces</li> <li>3.1.5 Establish a level-of-service standard for community gardens</li> </ul> </li> <li>3.2 Develop policies to protect and preserve urban and rural agriculture and to process and distribute local products <ul style="list-style-type: none"> <li>3.2.1 Implement policies and strategies outlined in the Comprehensive Plan encouraging conservation of the county's designated agricultural lands and support for the widest variety of agricultural crops and products</li> <li>3.2.2 Integrate food system elements into all planning efforts, including land use and economic development</li> <li>3.2.3 Create a land use category for urban agriculture, distinguishing it from rural agriculture as smaller, temporary, less intensive, and of short-term commercial significance or critical importance to community food security. Allow this use within the UGA</li> <li>3.2.4 In addition to long-term commercial significance, consider community food security in all land use decisions relating to agricultural land</li> <li>3.2.5 Define community gardens and/or urban agricultural areas as an urban service to be concentrated in UGAs</li> <li>3.2.6 Add or modify Comprehensive Plan goals to include community food security</li> </ul> </li> <li>3.3 Ensure that food infrastructure accompanies population growth by assessing and planning for food production, processing, wholesale, retail, and waste management activities <ul style="list-style-type: none"> <li>3.3.1 Consider strategies such as enterprise zones, tax incentives, financing initiatives, technical support, and regulatory streamlining for healthy food businesses</li> <li>3.3.2 Assess government-owned land suitable for cultivation and support opportunities for food production activities on these sites</li> <li>3.3.3 Allow greater flexibility to farmers regarding development standards and commercial uses on farmland to support direct marketing of local agricultural</li> </ul> </li> </ul> |

| Goal   | Objective   | Policies & strategies   |
|--|---|---|
| 4: Increase access to healthy food and reduce disparities in food access | In 2035, at-risk populations will not have a higher exposure to unhealthy food retail than other populations within the county, and will have equal access to healthy food. | <p>4.1 Target healthy food initiatives for populations at highest risk for development or exacerbation of chronic disease (youth, low-income, minorities, and elderly)</p> <p>4.1.1 Increase healthy food access in low-income neighborhoods through development of new farmers markets that include a plan to accept Electronic Benefit Transfer-SNAP benefits</p> <p>4.1.2 Develop mechanisms for limiting the density of fast food restaurants and convenience stores and for encouraging healthy food retail near schools</p> <p>4.1.3 Encourage healthy foods in facilities serving children and aging adults</p> <p>4.1.4 Pursue a mix of land uses that allows for healthy food retail in proximity to residential areas</p> <p>4.1.5 Prioritize transit that serves healthy food sources</p> <p>4.1.6 Support farm-to-school and farm-to-institution programs</p> |



## Active Transportation and Land Use

The relationship between transportation infrastructure and land use determines our transportation choices, in turn influencing our ability to get exercise as part of daily life.

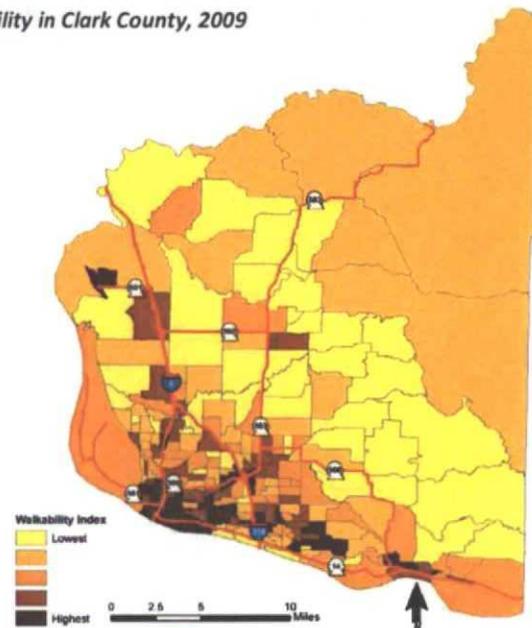
### How transportation and land use impact health

The Centers for Disease Control and Prevention recommend that adults get 30 minutes of physical activity five days per week. In the past, many Americans achieved this through regular daily tasks like walking to the store or transit stop. Creating new opportunities to be active as part of daily life is a key strategy in reducing obesity, and active transportation modes such as walking and cycling offer countless opportunities to get exercise. Like all forms of transportation, people's ability to benefit from active transportation is intimately tied to the arrangement of land uses in their communities and the infrastructure available to them.

#### Land use

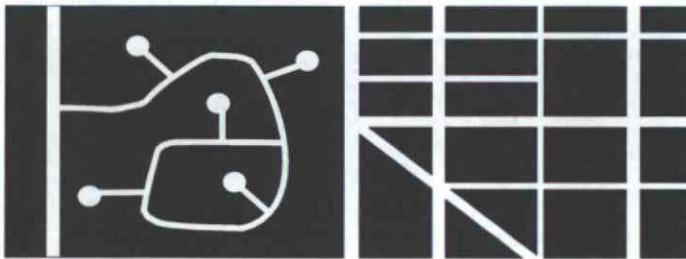
Built environments that provide opportunities for physical activity lower the risk of obesity. For example, neighborhoods with walkable destinations allow residents to get physical activity as part of their everyday routine. Physical activity achieved while traveling between destinations, such as walking from home to a café, is known as active transportation. Density and a mix of land uses promote active transportation by bringing destinations closer together. For example, a dense mix of land uses allows destinations such as restaurants and retail to be within walking distance of residences. Transportation and land use influence each other, resulting in travel choices that influence health.

Walkability in Clark County, 2009



The most walkable areas in Clark County are near downtown Vancouver, with other walkable areas generally coinciding with hubs of activity such as in Hazel Dell and Orchards.

Using best practices in urban design promotes physical activity. Buildings that come right up to the sidewalk with ground-level windows and entrances encourage walking, as do attractive walking environments with amenities such as street trees, benches, and lighting. Streets are more comfortable for pedestrians when blocks, buildings, or vegetation provide a continuous sense of enclosure, whereas streets fronted by surface parking lots discourage active transportation. A well-connected street network makes bicycling and walking easier and safer, and makes transit more efficient.



Compared to cul-de-sac designs, a well-connected street grid shortens travel distances and encourages active transportation.

### In Clark County

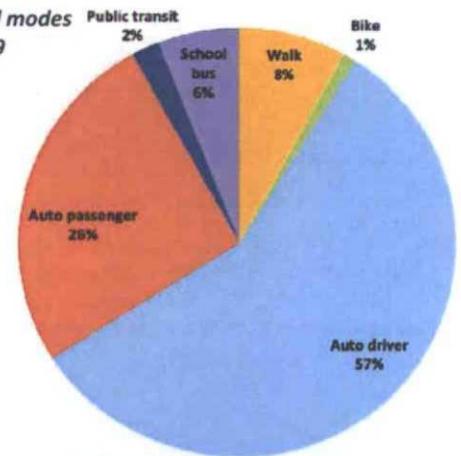
While there are good examples of walkable neighborhoods in Clark County, it is dominated by drivable suburban development. Just 4.6% of Clark County commuters use active transportation modes to get to and from work, tied for lowest of the 10 largest counties in Washington and the lowest in the Portland-Vancouver Region. In many areas of Clark County, large arterials are the only through-routes. Buildings are often low and set back from the sidewalk by large parking lots.

|   | County                | Total of commuters | % active transport                   |
|---|-----------------------|--------------------|--------------------------------------|
| 10 most populous counties in Washington | Benton County         | 72,243             | 5.1% ( $\pm 0.8\%$ )                 |
|   | <b>Clark County</b>   | <b>189,117</b>     | <b>4.6% (<math>\pm 0.4\%</math>)</b> |
|   | King County           | 974,509            | 16.2% ( $\pm 0.4\%$ )                |
|   | Kitsap County         | 109,688            | 12.0% ( $\pm 0.9\%$ )                |
|   | Pierce County         | 361,280            | 7.2% ( $\pm 0.6\%$ )                 |
|   | Snohomish County      | 336,556            | 6.6% ( $\pm 0.4\%$ )                 |
|   | Spokane County        | 207,635            | 6.2% ( $\pm 0.5\%$ )                 |
|   | Thurston County       | 114,347            | 5.7% ( $\pm 0.7\%$ )                 |
|   | Whatcom County        | 92,113             | 9.8% ( $\pm 1.0\%$ )                 |
|   | Yakima County         | 93,612             | 3.6% ( $\pm 0.9\%$ )                 |
| Metro                                   | Clackamas County, OR  | 180,793            | 6.7% ( $\pm 0.6\%$ )                 |
|   | Multnomah County, OR  | 353,831            | 19.8% ( $\pm 0.6\%$ )                |
|   | Washington County, OR | 257,225            | 9.5% ( $\pm 0.7\%$ )                 |

In the table above, % active transport refers to the percent of commuters who travel by biking, walking, or transit.

### Non-commute travel modes in Clark County, 2009

For non-commute travel, about 83% of all trips are made by automobile in Clark County.



Auto-dependent development reinforces sedentary lifestyles, and spending time driving is associated with a higher likelihood of obesity. Research shows that each additional hour per day spent in a car increases the odds of obesity by about 6%, while each additional half mile walked decreases the odds by about the same.

### Infrastructure

Greater perceived safety and comfort is associated with higher levels of active transportation. For example, the speed of traffic or lack of separation from traffic may deter some from cycling despite statistics demonstrating relatively safe streets. Research suggests that bike lanes and sidewalks on busy roads alone are unlikely to increase active transportation; a greater degree of comfort is required. This is especially true in urban areas, where 85% of Washington bicycle and pedestrian crashes take place. For those who feel unsafe on streets, separated sidewalks and trails can offer a more comfortable experience.

### In Clark County

Clark County residents average 17.5 vehicle miles per person per day, and 2.1 vehicles per household. About 2% of Clark County commuters use transit, and only 27% percent of Clark County residents live within ¼ mile of a transit stop. Safety and comfort are also important factors in transit ridership. C-Tran provides shelter at about 17% of all transit stops.

In a survey of Clark County trail users, 90% thought safety conditions on trails were good or excellent.

Obesity accounts for about 10% of annual medical spending nationwide, and Clark County spends an estimated \$111 million annually on obesity-related health care.

Transit use is associated with physical activity. A study of transit users found that about one-third met daily physical activity requirements simply by walking to access the bus stop.

### Economic benefits

The benefits of active transportation go beyond increasing opportunities for physical activity. Active transportation helps to relieve congestion, reduce emissions, and decrease dependence on oil. The potential monetary benefits resulting from reduced health care costs are significant. The cost of treating obesity-related diseases is now second only to the costs of treating those related to tobacco. Because of these high costs, studies have estimated that for every dollar spent on bicycle infrastructure, as many as five dollars are saved in direct medical costs.

*Walkable streets and building designs provide economic benefits as well as health benefits.*



**Access to health care facilities**

Transit access to health care facilities offers a reasonable proxy measure for overall accessibility, as transit tends to serve the most common destinations in relatively walkable areas.

The availability of primary care has a role in preserving good health and preventing illnesses and hospitalizations from communicable diseases and conditions such as asthma and diabetes. People often consider individual level factors such as medical coverage when thinking about health care access. Regardless of a person's ability to pay, there are many community level factors that can influence access to care. Health care facility locations that allow people to use active transportation have the added health benefit of promoting physical activity.

*Patient rapid transit, Duke Hospital, Texas*



*Active transportation for all ages and abilities*



**In Clark County**

In Clark County, approximately 85% of health care facilities are within 1/4 mile of a transit stop.

**Access to transit in Clark County, 2010**



About 27% of Clark County residents live within 1/4 mile, or a 5-minute walking distance, of a transit stop.

## Disparities in Clark County

### Socioeconomic status (SES)

Approximately 4% of Clark County households do not own a vehicle and must rely on other modes of transportation. While the low SES population is more likely to ride transit compared with high SES, overall the rate of public transit use is low. There is a moderate significant correlation between the walkability index and poverty. Low SES households are more likely to live in walkable neighborhoods compared to high SES groups. This is likely because low-income households tend to live in older housing located in older, more walkable areas of Vancouver.

### Race and ethnicity

Approximately 31% of white residents live within walking distance of a transit stop compared with 38% of non-white residents. There is a weak significant correlation between the walkability index and the percent of neighborhood population that is non-white. Non-whites are more likely to live in walkable neighborhoods compared to whites.

### Age

About 31% of Clark County youth and 35% of residents aged 65 years and older live within ¼ mile of a transit stop. There is a weak correlation between residents aged 65 years and older and walkability in Clark County. Older adults are slightly more likely to live in walkable neighborhoods compared with persons younger than 20.

### Geography

Public transit routes, common destinations, and active transportation infrastructure are more common in urbanized areas. Urban areas therefore offer more opportunities for active transportation than rural areas.

## Conditions needed to thrive

Every Clark County resident needs the choice to be able to locate in a walkable and bikeable neighborhood that reinforces daily physical activity through opportunities to build in exercise as part of daily life. Well-connected street grids, complete streets, a dense mix of land uses, access to transit, and best urban design practices lead to more people meeting physical activity recommendations more often.



**Related plans, policies, and reports:** Clark County Regional Trails & Bikeway Systems Plan, 2006; Clark County Bicycle and Pedestrian Master Plan, 2010; Clark County Aging Readiness Plan, 2012

## Policy recommendations

| Goal   | Objective   | Policies & strategies   |
|--|---|---|
| 1. Maximize the use of healthy and sustainable transportation modes through transportation and land use policies | In 2035, Clark County will have the same active transportation commute mode share (walking + cycling + transit) as other counties in the Portland-Vancouver region.             | <p>1.1 Adopt a healthy and sustainable transportation policy for the UGA that favors transportation modes in the following order: pedestrian, bicycle, transit, carpool &amp; freight, single occupant vehicle</p> <p>1.1.1 Adopt a complete streets ordinance recognizing differences between urban and rural transportation needs</p> <p>1.1.2 Adopt a multi-modal level of service and require all construction in the Urban Growth Area (UGA) to meet level of service standards for bicycle and pedestrian traffic</p> <p>1.1.3 Adopt an active transportation checklist for use during development review</p> <p>1.2 Manage travel demand to minimize automobile travel</p> <p>1.2.1 Adopt parking maximums and waive parking minimums for some uses</p> <p>1.2.2 Manage parking demand through pricing</p> <p>1.3 Fund active transportation projects</p> <p>1.3.1 Aggressively pursue new funding sources for active transportation infrastructure</p> <p>1.3.2 Reallocate existing transportation funding to emphasize active transportation</p> |
| 2. Build neighborhoods that support active transportation  | Between 2012 and 2035, 100% of new neighborhood developments in the UGA will include land uses, infrastructure, design, and street networks that support active transportation. | <p>2.1 Ensure that land use supports active transportation</p> <p>2.1.1 Increase residential and employment densities in the Urban Growth Area</p> <p>2.1.2 Increase residential density minimums</p> <p>2.1.3 Require a mix of uses</p> <p>2.1.4 Incentivize transit-oriented development</p> <p>2.1.5 Adopt an infill development ordinance</p> <p>2.1.6 Identify opportunities to introduce neighborhood commercial uses and re-zone properties to allow them in areas dominated by residential use.</p> <p>2.2 Build active transportation infrastructure in the Urban Growth Area</p> <p>2.2.1 Increase bikeway network density</p> <p>2.2.2 Increase sidewalk connectivity and safe crossings by expanding the sidewalk infill program</p> <p>2.2.3 Integrate walking and bicycling infrastructure with transit</p> <p>2.2.4 Improve and expand transit service frequency, reliability, affordability, usability, and efficiency</p> <p>2.2.5 Target transit service and infrastructure to serve health care facilities</p>                         |

| Goal   | Objective  | Policies & strategies   |
|--|--|---|
| 2.(continued)  |  | <ul style="list-style-type: none"> <li>2.3 Design streets and buildings to encourage active transportation               <ul style="list-style-type: none"> <li>2.3.1 Implement design overlays that require human-scale construction, with street-level windows and entrances oriented to the sidewalk</li> <li>2.3.2 Expand the use of form-based code</li> <li>2.3.3 Develop street designs that allow for a variety of uses in the right-of-way, including active transportation and social uses</li> <li>2.3.4 Implement innovative street designs, such as the National Association of City Transportation Officials (NACTO) Urban Bikeway Design Guide</li> </ul> </li> <li>2.4 Increase street network connectivity in the UGA               <ul style="list-style-type: none"> <li>2.4.1 Establish maximum block sizes and/or minimum connectivity standards in the UGA</li> <li>2.4.2 Prohibit future construction of cul-de-sacs except where limited by sensitive areas</li> <li>2.4.3 Build connections in existing disconnected street networks, such as between cul-de-sacs</li> </ul> </li> </ul> |
| 3. Enhance the safety and comfort of active transportation | In 2035, there will be zero bicycle and pedestrian traffic fatalities.   | <ul style="list-style-type: none"> <li>3.1 Set a target of zero traffic fatalities               <ul style="list-style-type: none"> <li>3.1.1 Make safety the top priority in all roadway design</li> <li>3.1.2 Develop and implement low-speed street designs such as neighborhood greenways</li> <li>3.1.3 Implement traffic calming on neighborhood streets</li> </ul> </li> <li>3.2 Make cycling, walking, and transit more user-friendly               <ul style="list-style-type: none"> <li>3.2.1 For cycling and walking, maximize separation from auto traffic when vehicle speeds are greater than 20 mph</li> <li>3.2.2 Improve and expand wayfinding signage</li> <li>3.2.3 Increase proportion of transit stops with rider amenities</li> <li>3.2.4 Identify deficiencies in street lighting and develop an improvement plan</li> </ul> </li> </ul>  |
| 4. Ensure equal access to active transportation options    | In 2035, high-risk populations will have equal or better opportunities to achieve physical activity through active transportation. | <ul style="list-style-type: none"> <li>4.1 Provide active transportation options as equitably as possible with regard to race, ethnicity, income, age, and neighborhood               <ul style="list-style-type: none"> <li>4.1.1 Prioritize bicycling, walking, and transit facilities in neighborhoods with low SES or high minority populations</li> <li>4.1.2 Implement a ciclovia or Sunday parkways program for Clark County</li> </ul> </li> <li>4.2 Improve infrastructure and encouragement programs for youth               <ul style="list-style-type: none"> <li>4.2.1 Site new elementary and middle schools in areas that are within 1 mile of most students' homes</li> <li>4.2.2 Limit setbacks for new school construction to minimize walking distance</li> <li>4.2.3 Partner with school district officials to expand and institutionalize Safe Routes to School Programs, including walking school bus programs</li> </ul> </li> </ul>   |



# Parks and Open Spaces

Parks and open spaces are valued assets that provide residents with important health options including opportunities for physical activity, social interaction, and contact with nature.

## How parks and open spaces impact health

### Parks and Physical Activity

Being physically active reduces the risk of many diseases and improves wellbeing. Research shows that access to parks increases the likelihood of meeting physical activity recommendations. The number of parks nearby, their size, and their features or amenities can all influence the amount of physical activity people achieve. People who live close to parks are more likely to use them and be physically active, especially when they live near large parks or many smaller parks. Multi-use trails help people meet physical activity needs for both recreation and transportation purposes.

### In Clark County

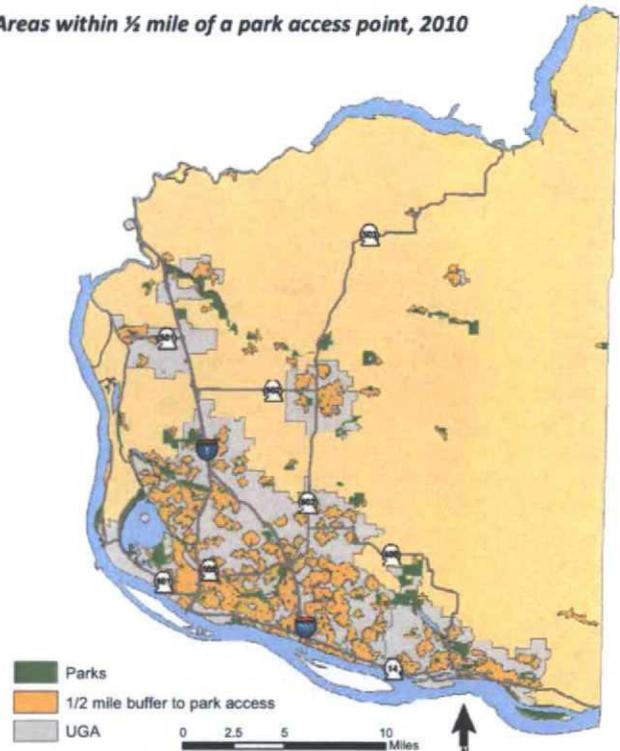
An estimated 48% of Clark County residents live within 1/2 mile or 10-minute walking distance of a park access point.

A study of trails and parks in the Portland-Vancouver region found that they save about \$155 million in healthcare costs annually.

In Clark County, 81% of adults participated in *some* leisure time physical activity in the past month.

Among Clark County youth/tenth graders, 41% reported daily physical education attendance, and 44% met the physical activity recommendation of 60 minutes or more of physical activity each day.

Areas within 1/2 mile of a park access point, 2010



Physical activity in parks is affected by park safety and maintenance. Our investments in parks are maximized when people feel safe and comfortable using them for exercise.

**Parks and well-being**

Experiencing nature improves well-being. Many studies show that contact with nature reduces stress and has positive impacts on mental health, especially among youth. Studies show that contact with nature can decrease in symptoms of attention deficit disorder. Parks and open space are one way for residents to experience contact with nature, but they also offer a public gathering space to interact with neighbors and build social cohesion, which also improves health. Socializing is among the most common uses of parks.

*Park acreage in Clark County, 1994 & 2011*

| Park Type                         | 1994      |              | 2011       |              |
|-----------------------------------|-----------|--------------|------------|--------------|
|                                   | Number    | Acres        | Number     | Acres        |
| Neighborhood Parks                | 23        | 116          | 109        | 465          |
| Community Parks                   | 5         | 234          | 23         | 614          |
| Urban Open Space                  | 2         | 32           | 24         | 534          |
| Regional Parks                    | 10        | 1,797        | 12         | 2,314        |
| Conservation and Greenway Systems | 9         | 1,390        | 12         | 2,634        |
| Special Use Areas                 | 3         | 162          | 12         | 716          |
| <b>Total</b>                      | <b>52</b> | <b>3,731</b> | <b>191</b> | <b>7,277</b> |

**In Clark County**

In a Clark County survey, respondents reported that they visit neighborhood and community parks most frequently compared to other types of parks.

Vancouver Clark Parks and Recreation provides 2,634 acres of regional natural areas, trails and greenways and 534 acres of urban natural areas. They also provide many types of recreational facilities. During 2010, there was a 13% increase in overall recreation facility use compared with 2009.

Clark County survey respondents found the safety and security at parks and recreation facilities to be good, with an average score of 3.6 out of 5, but opportunities for improvement remain.



*Park features such as playgrounds and walking paths encourage physical activity.*

## Disparities in Clark County

### **Socioeconomic status (SES)**

Nationally, residents in low-income neighborhoods experience more barriers to accessing parks than higher income residents. However, in Clark County a greater percent of low-income and non-white residents live within ½ mile of a park access point (56% and 54% respectively) compared to the county as a whole (48%), a positive indicator of health equity.

### **Race and ethnicity**

Similar to the pattern of access for low-income neighborhoods in Clark County, access in areas with racial and ethnic minorities is exemplary compared to other areas of the country. Approximately 54% of non-white Clark County residents live within ½ mile of a park access point compared with 47% of white residents. At the county level, non-white residents have somewhat better access to parks than white residents.

### **Age**

Age is not a barrier to access. People older than 65 and younger than 20 have similar access to parks as the county as a whole. Compared to the county-wide figure, the same percentage of these groups lives within ½ mile of a parks access point.

### **Geography**

Outside the Urban Growth Area, only 4% of residents live within ½ mile of a park access point. In some respects, rural residents can still access opportunities for physical activity in other nearby open spaces, depending on how the land around them has developed. It is likely that park access in rural areas is dependent on vehicle access.

## **Conditions needed to thrive**

To thrive, residents need nearby parks and open spaces to gather and recreate. To be most effective, such amenities need to be safe, well maintained, well designed, and have a community presence. When they meet those conditions, they promote physical activity and protective benefits against chronic diseases. Parks also promote good mental health by providing contact with nature, opportunities for social interaction, a space for community engagement.



**Related plans, policies, and reports:** Clark County Regional Trails & Bikeway Systems Plan, 2006; VCPRD Comprehensive Parks, Recreation & Open Space Plan, 2007; Clark County Bicycle and Pedestrian Master Plan, 2010; Aging Readiness Plan, 2012

## Policy recommendations

| Goal                                   | Objective  | Policies & strategies  |
|--|--|--|
| 1. Increase physical activity in parks | In 2035, the percent of Clark County residents within the Urban Growth Area living within ¼ mile of a park or trail access point will have increased | <ul style="list-style-type: none"> <li>1:1 Maintain and enhance existing parks and recreation facilities and services                             <ul style="list-style-type: none"> <li>1.1.1 Develop and regularly update asset management plans to promote efficiency and stewardship system-wide</li> <li>1.1.2 Ensure that key facilities, especially restrooms, remain available to the public year round</li> </ul> </li> <li>1:2 Establish and meet park maintenance standards                             <ul style="list-style-type: none"> <li>1.2.1 Establish maintenance unit costs and annually review these for budgeting purposes</li> </ul> </li> <li>1:3 Increase access to parks, recreation and open space                             <ul style="list-style-type: none"> <li>1.3.1 Restore and expand recreation programs and services to meet community needs</li> <li>1.3.2 Evaluate transportation barriers affecting the ability of existing parks to serve residents</li> <li>1.3.3 Improve bicycle and pedestrian connections to parks</li> <li>1.3.3 Expand parks by converting vacant spaces in built-up communities into mini parks</li> <li>1.3.4 Implement the parkland development standards</li> <li>1.3.5 Fill in service gaps using the parks acquisition program</li> </ul> </li> <li>1:4 Establish and enhance joint use of facility agreements</li> <li>1:5 Include public open space, such as plazas, as a requirement for new building development plans in densely developed areas</li> <li>1:6 Build multi-use community facilities with adaptable programming space</li> <li>1:7 Develop a network of trails and bikeways throughout the county that connect destinations                             <ul style="list-style-type: none"> <li>1.7.1 Implement the Clark County Bicycle and Pedestrian Plan</li> <li>1.7.2 Implement the Clark County Regional Trail &amp; Bikeway Systems Plan</li> <li>1.7.3 Update the Clark County Bicycle and Pedestrian Plan and the Regional Trail and Bikeway Systems Plan within 5 years</li> </ul> </li> </ul> |

| Goal   | Objective  | Policies & strategies   |
|--|--|---|
| 2. Ensure long-term access to parks and open space | In 2035, stable and sustainable park funding exists.   | <ul style="list-style-type: none"> <li>2.1 Ensure adequate funding <ul style="list-style-type: none"> <li>2.1.1 Implement Vancouver-Clark Comprehensive Parks, Recreation, and Open Space Plan.</li> </ul> </li> <li>2.2 Exercise fiscal responsibility in all acquisitions and expenditures</li> <li>2.3 Support volunteers <ul style="list-style-type: none"> <li>2.3.1 Support Adopt-A-Trail programs</li> <li>2.3.2 Support Adopt-A-Greenway programs</li> </ul> </li> <li>2.4 Monitor park use by conducting user surveys every 4-5 years</li> <li>2.5 Consider consolidating parks operations</li> </ul>  |
| 3. Improve equity                                  | In 2035, high-risk neighborhoods will continue to have equal or better access to parks when compared to other neighborhoods. | <ul style="list-style-type: none"> <li>3.1 Improve and maintain equity of parks access in Clark County <ul style="list-style-type: none"> <li>3.1.1 Support parks, trails, recreation facilities and programs in at risk neighborhoods</li> <li>3.1.2 Distribute parks and open spaces equitably throughout the Urban Growth Area by allocating needed parkland to underserved areas, including areas of high projected growth</li> <li>3.1.3 Provide parks in areas with high need and low service</li> </ul> </li> <li>3.2 Work with partners to provide recreation opportunities for residents of all ages, abilities and economic and cultural backgrounds <ul style="list-style-type: none"> <li>3.2.1 Create recreational programs as a lower cost and highly targeted approach to prevent obesity within communities at highest risk</li> <li>3.2.2 Provide recreational facilities and services needed by various population groups, such as specific age groups or people with special physical requirements</li> <li>3.2.3 Introduce free and low-cost recreational programming where fees might otherwise limit participation</li> </ul> </li> <li>3.3 Involve diverse community members in parks and recreation planning</li> </ul> |
| 4. Ensure safety                                   | In 2035, safety is not a barrier to park use.  | <ul style="list-style-type: none"> <li>4.1 Improve park safety <ul style="list-style-type: none"> <li>4.1.2 Organize programs and work with partners to provide natural surveillance around parks and open space</li> <li>4.1.3 Track crime and perceptions of safety in and around parks</li> </ul> </li> <li>4.2 Apply park and facility design that discourages vandalism and deters crime <ul style="list-style-type: none"> <li>4.2.1 Design lighting to enhance safety while balancing the need for limited light pollution</li> </ul> </li> </ul>  |



## Economic Opportunity

Income and educational attainment are among the most powerful predictors of overall health. Individuals and communities need economic opportunity to ensure stable, sufficient employment and lifelong well-being.

### How economic opportunity impacts health

#### Individual economic opportunity and health

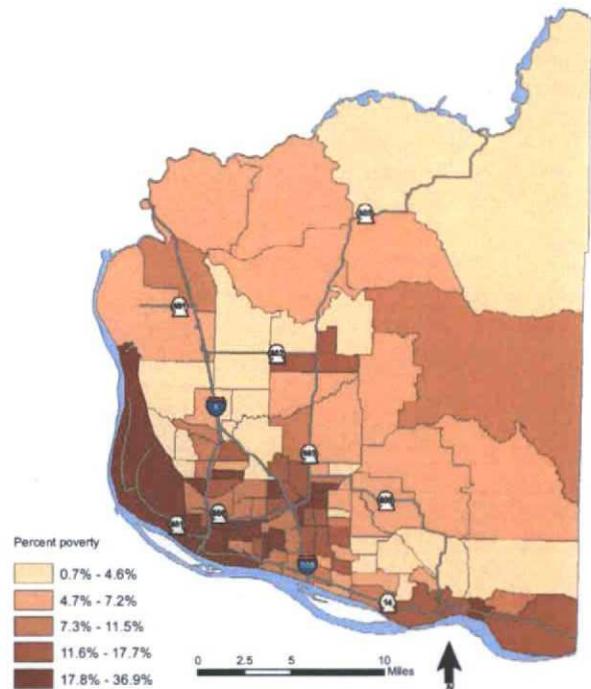
Higher incomes are associated with better health. Income is a powerful predictor of overall health, and each step up the socioeconomic ladder equates to better health. This is indicative not only of better access to health care, but also a greater capacity to engage in healthy behaviors such as eating fresh produce and finding time to exercise. Income is among the best predictors of health because it is so closely linked to educational attainment. Research strongly supports the finding that many measures of health improve as educational attainment increases.

#### In Clark County

In 2010, about 11% of Clark County residents live in poverty, slightly lower than the statewide rate of 12%. In Clark County, 23% of residents from households earning less than \$50,000 report poor health, compared to just 9% of wealthier households.

Educational attainment is strong among Clark County youth, with 79% graduating from high school on time, similar to the statewide rate of 77%. However, only about 26% of Clark County adults hold a bachelor's degree or higher, the lowest among the four counties in the Portland-Vancouver metropolitan area.

Poverty by census tract, 2010



Employment influences chronic stress and income. Frequent or long-term stress takes a toll on health, and employment is a major influence on stress. Unemployment can be extremely stressful, but even the employed can be exposed to chronic stress when jobs are demanding and offer little control over day-to-day activities.

In addition to individual income and educational attainment, the distribution of income within a society also predicts health outcomes. Societies with a smaller gap in wealth and income have better health outcomes, as demonstrated by research that compares various countries and US states. More equal incomes result in better health for everyone, all the way across the socioeconomic continuum.

**Community economic opportunity**

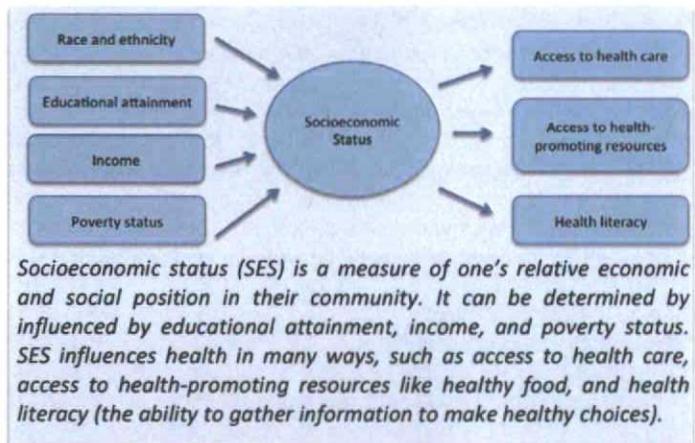
Increased human capital results in higher productivity and economic activity. The combination of skills, knowledge and innovation contributed by each worker is known as human capital. For example, the knowledge and experience of a teacher is valuable because it helps our society educate youth. A key indicator of human capital is educational attainment. Dense human capital attracts more human capital and stimulates economic activity. Research shows that there is

**In Clark County**

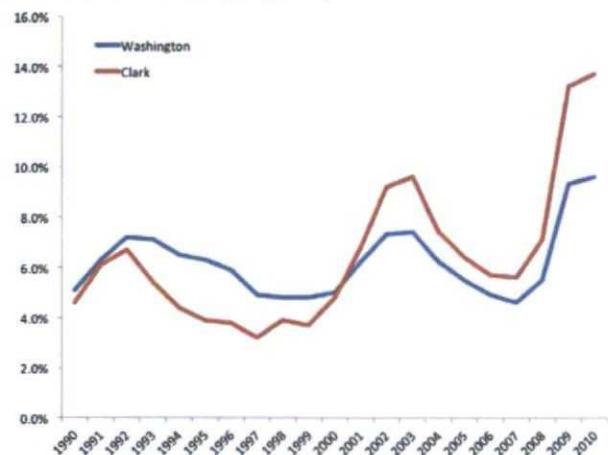
The unemployment rate in Clark County has been somewhat more volatile than that of the state of the whole.

Management, professional or related occupations make up about 34% of the labor force in Clark County. This is similar to the statewide figure. These positions are generally beneficial for health because they offer lower demand and higher control.

Clark County has a more equal distribution of income than comparison jurisdictions, a positive sign for health.



**Annual average unemployment in Clark County and Washington, 1990-2010 (not seasonally adjusted)**



a synergistic effect from having many workers in one place. In other words, productivity increases with the density of employees.

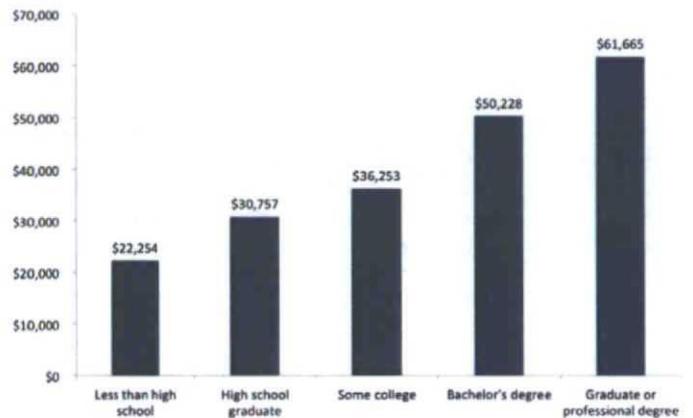
Smart growth strategies increase economic opportunity. Compact, walkable development that creates vibrant, iconic neighborhoods helps attract companies and skilled workers that can increase community-wide economic opportunity. National studies show that educated workers and the companies that need them are attracted to locations that offer cultural amenities and urban neighborhoods.

Demographic trends point to increased demand for healthy urban development. Two large age groups, baby boomers and millennials, are expected to have a large influence on this demand as they seek out urban settings. As boomers retire and as millennials enter the work force, data show that demand for urban development will far outpace supply as household size and structure change. For example, the percent of households with only one person is expected to become greater than the percent with children.

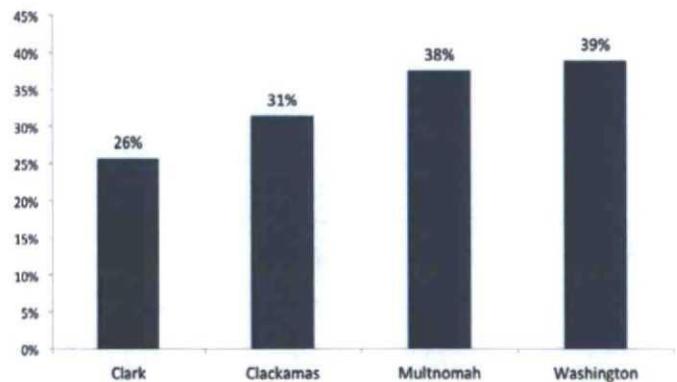
**In Clark County**  
 A national study found that Clark County is slightly less sprawling than the average urbanized US county. However, the county is dominated by drivable suburban development.

The creative vitality index measures economic activity related to cultural amenities, arts, and entertainment. The index is used to rate places in relation to the national average (1.0). For Southwest Washington in 2008 the index value was 0.51, compared to 1.01 for Washington State.

**Median earnings by educational attainment for Clark County adults aged 25 years or older, 2010**



**Percent of adults aged 25 years or older with a bachelor's degree or higher by County, 2010**



## Disparities in Clark County

### Socioeconomic status (SES)

SES is the core health concern related to economic opportunity. Low SES populations have fewer resources to access educational opportunities and therefore face greater barriers to increased income. In Clark County, 79% of all students graduate on time, but only 68% of low-income students accomplish the same.

### Race and ethnicity

As measured by income, SES varies by race and ethnicity in Clark County. Asian and Native Hawaiian/Other Pacific Islanders are the top earners for all groups. Blacks, Hispanics, and American Indians/Alaska Natives have substantially lower median incomes.

### Age

Poverty status varies by age. Whereas the countywide poverty rate in 2010 was 11%, among children under age 18 the rate is estimated at 15%. Between ages 18 and 65 the rate is 10%, and for ages 65 and older the rate diminishes to 7%. Clark County residents in middle age groups have substantially higher median incomes than those aged 15-24 or 65+.

### Geography

Census data show that about 1/3 of workers travel outside of the state to work, and almost 2/3 of workers do not work in the city where they live.

## Conditions needed to thrive

To thrive, residents need access to high quality primary, secondary, and higher education and stable employment opportunities that offer living wages. Providing these opportunities requires the community to attract highly skilled workers, foster innovation, and create vibrant, attractive places to live, work, and play. A robust local economy is needed to sustain opportunities for education and employment.



Related plans, policies, and reports: Clark County Economic Development Plan, 2011

## Policy recommendations

| Goal  | Objective  | Policies & strategies  |
|---|--|--|
| 1. Create a thriving local economy  | In 2035, a smaller proportion of county residents will leave the county for work.  | <ul style="list-style-type: none"> <li>1.1 Fully implement the economic development policies in the 2011 Clark County Economic Development Plan</li> <li>1.2 Prioritize preservation of farmland to support an agricultural processing industry</li> <li>1.3 Foster increased density of human capital and innovation                             <ul style="list-style-type: none"> <li>1.3.1 Plan for dense employment districts</li> </ul> </li> </ul>  |
| 2. Address persistent health inequities experienced by low income and minority populations      | In 2035, low SES and minority populations will experience health outcomes equal to or better than those of higher SES and white populations. | <ul style="list-style-type: none"> <li>2.1 Mitigate the health impacts of poverty by creating opportunities for those in poverty at all stages of life:                             <ul style="list-style-type: none"> <li>2.1.1 Ensure that all children have a healthy and safe start to life</li> <li>2.1.2 Increase the number of children entering school prepared and ready to learn</li> <li>2.1.3 Mobilize community resources to support at-risk youth</li> </ul> </li> <li>2.2 Emphasize strategies from the 2011 Clark County Economic Development Plan that increase local hiring and promote diversity in the workforce</li> <li>2.3 Increase income equality by recruiting businesses that provide living wage jobs                             <ul style="list-style-type: none"> <li>2.3.1 Expand living wage agreements and enhance accountability</li> </ul> </li> </ul> |
| 3. Prepare current County residents to participate in and benefit from new economic initiatives | The county-wide on-time high school graduation rate will increase by 2020.   | <ul style="list-style-type: none"> <li>3.1 Ready the local workforce to maximize economic opportunities</li> <li>3.2 Partner with educational institutions to provide students with the support needed for educational success across all grade levels</li> <li>3.3 Work with educational institutions, foundations and businesses to connect educational achievement to emerging employment opportunities</li> </ul>  |

| Goal   | Objective  | Policies & Strategies  |
|--|--|--|
| 4. Provide an environment that attracts highly skilled workers | In 2035, the percent of Clark County adults with a bachelor's degree or higher is greater than or equal to the regional percent. | <ul style="list-style-type: none"> <li>4.1 Match population growth and development patterns to economic development goals by advancing community characteristics that appeal to a young, skilled, educated workforce and the industries that would employ them</li> <li>4.2 Direct new development toward smaller, more affordable housing units in high-density settings with many transportation options</li> <li>4.3 Preserve and enhance natural and cultural resources</li> <li>4.4 Build quality places <ul style="list-style-type: none"> <li>4.4.1 Design iconic, identifiable places through design</li> <li>4.4.2 Reconnect the cities with their waterfronts</li> <li>4.4.3 In mixed use districts, include entertainment, such as restaurants, theaters, and concert venues</li> <li>4.4.4 Include mixed uses in or near to neighborhoods in order to promote access to and customer support of local small businesses</li> </ul> </li> <li>4.5 Retrofit neighborhoods and employment centers in the UGA with economically and environmentally sustainable infrastructure <ul style="list-style-type: none"> <li>4.5.1 Prioritize infrastructure investments that increase non-automobile travel</li> <li>4.5.2 Prioritize infrastructure that supports local business, industrial, and commercial uses</li> </ul> </li> </ul> |



## Affordable, Quality Housing

Affordable, quality housing provides residential stability and security, ensures sufficient resources to meet other basic needs, and provides protection from the elements and other health risks.

### How housing impacts health

There are three housing-related risk factors identified by the Centers for Disease Control and Prevention. These include housing that is unaffordable, unhealthy, or inadequate, as described in the adjacent chart.

#### Unaffordable housing

When unaffordable housing is the only choice available, people are forced to make trade-offs that are associated with poor health, obesity and other chronic diseases. When too large a percentage of income goes to cover rent or mortgages, residents may be unable to afford medical care for themselves or their families. Similarly, they may have to rely on inexpensive calorie rich but nutritionally deficient foods that contribute to obesity, live in over-crowded conditions that may spread infectious disease, or suffer from poor mental health.

#### In Clark County

In 2011, about 40% of Clark County residents lived in households spending more than 30% of their income on housing, a common measure of housing affordability. When transportation costs are included, about 76% of Clark County residents live in unaffordable housing.

| Risk factor          | Definition   | Health impacts   |
|----------------------|--|--|
| Unaffordable housing | Housing that costs more than a given percent of household income, usually 30%                      | Inability of children and adults to meet basic nutrition and health care needs, depression, stress, hypertension |
| Inadequate housing   | Moderate or severe physical problems such as deficiencies in plumbing, electricity, or maintenance | Intestinal illness, dehydration, respiratory disease, accidental injury or death                                 |
| Unhealthy housing    | Environmental health hazards such as poor air quality, mold, rodents, or water leaks               | Impaired child development, cancer, respiratory disease  |

The way we define affordability is changing. Traditionally, housing is considered affordable if the cost of rent and utilities does not exceed 30% of gross household income. Other measures examine the ability of a middle-income family to afford a median priced home purchase. However, both of these pose problems: the former does not account for costs secondary to the location of the housing and the latter only describes the ownership market. A new measure, the Housing and Transportation Affordability Index, offers a broader definition that captures the combined financial impacts of housing and of

transportation. By this measure, a home is considered affordable if combined housing and transportation costs are less than 45% of household income. Clark County's heavy reliance on automobiles and lengthy commutes make this an appropriate means of evaluating the complexities of affordability.

The type and quantity of housing units available in a community help determine affordability. For instance, duplexes or apartments are typically more affordable than single-family residences. While homebuyers may find housing prices more affordable following the economic downturn that began in 2008, demand for housing affordable to lower income residents continues to exceed supply.

**Homelessness and health**

Compared to people in any kind of housing, homeless persons face exposure to extreme temperatures, respiratory diseases, infectious diseases, sleep disorders, victimization, and violence.

**In Clark County**

Clark County offers fewer housing choices than other places in the state. In 2010, about 68% of Clark County housing units are detached single-family residences, greater than the statewide portion of 63%.

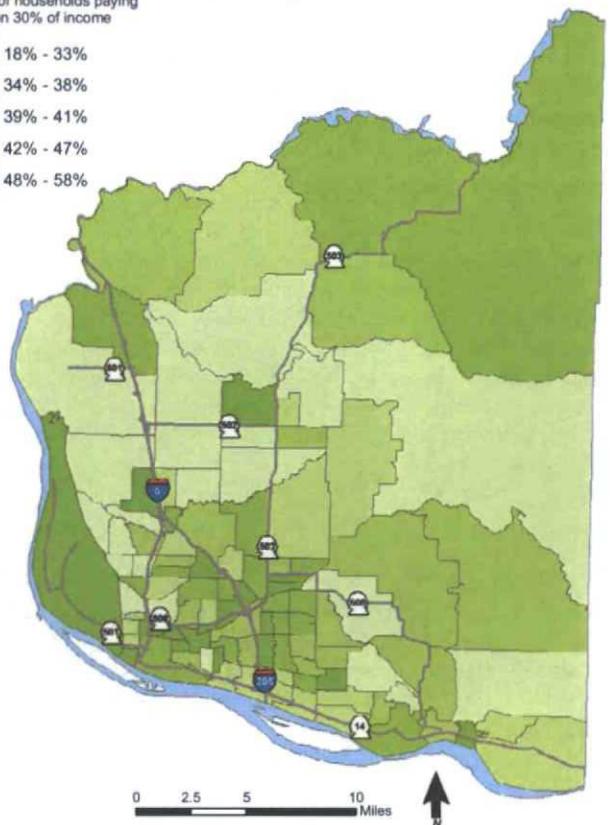
Very low-income populations experience an extreme shortage of affordable housing. The Vancouver Housing Authority provided 3,411 subsidized units in 2010, but has been unable to address the county's growing need as evidenced by its decision in 2006 to close an existing wait list of 3,295 persons.

While it is difficult to provide an exact number of homeless persons living in Clark County, a one-day count in 2011 found 837 homeless individuals, 52% of whom were in families with children. The number of people counted living with family and friends rose from 621 in 2010 to 834.

**Housing affordability by census tract, 2010**

Percent of households paying more than 30% of income

- 18% - 33%
- 34% - 38%
- 39% - 41%
- 42% - 47%
- 48% - 58%



*Areas with the highest percentage of households living in unaffordable housing are generally the most populous parts of the county.*

### Inadequate and unhealthy housing

The Centers for Disease Prevention and Control defines *Inadequate housing* as structurally deficient, or having problems such as frayed wiring, lack of plumbing, or narrow stairs without a protective banister. The structural deficits of inadequate housing may lead to food-borne illness, dehydration, respiratory distress, inability to regulate body temperature, cancer, accidental injury and death.

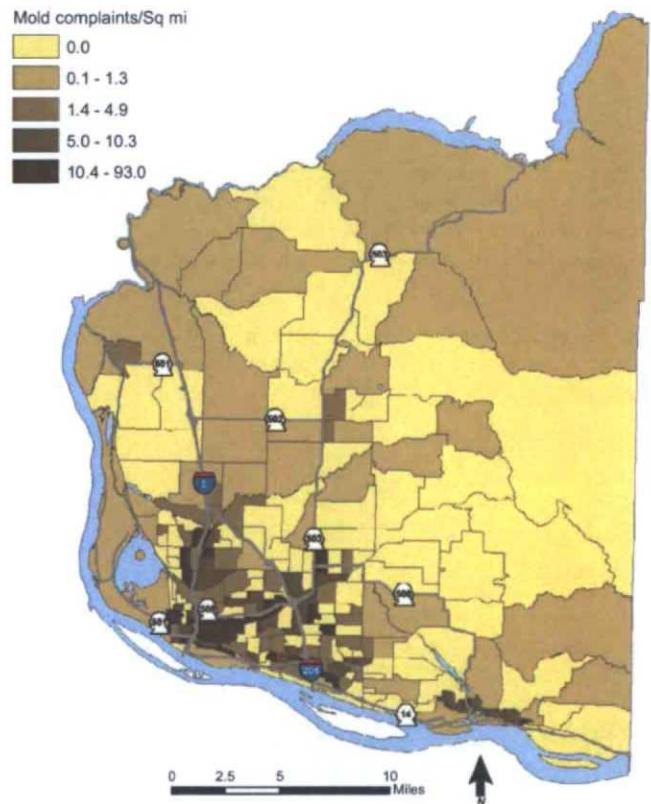
*Unhealthy housing* is defined as housing of an age or condition that results in problems such as pest-infested carpeting, indoor mold, or flaking lead paint. Unhealthy housing causes many kinds of illness and may lead to impaired child development, cancer, asthma, water-borne illness, and respiratory disease. Locally, mold complaints are an example of unhealthy housing, often found in areas with older housing and higher poverty rates. Another indoor air pollutant, radon, is a naturally occurring gas and the second leading cause of lung cancer, usually entering buildings through cracks in their foundations.

### In Clark County

There is insufficient data to accurately estimate the amount of inadequate and unhealthy housing in Clark County, but there is evidence based on national trends and local data. About 40% of owner-occupied homes and 44% of rental units in Clark County were built before 1980, presenting some risk of lead exposure.

As of 2011, unsafe levels of radon have been found in 21% of homes tested in Clark County, which is categorized as a high-risk area by the Environmental Protection Agency (EPA) (see map on page 44).

Mold complaint density by census block group, 2011



Areas with the highest density of mold complaints are concentrated in central Vancouver.

## Disparities in Clark County

### Socioeconomic status

Low-income populations have fewer housing choices and are therefore more likely to live in unaffordable, inadequate, or unhealthy housing. In Clark County, 81% of households earning less than \$20,000 live in unaffordable housing. These conditions often overlap with minority status or physical disability. Less ability to afford housing is sometimes exacerbated by a lack of availability of housing types. In outlying cities of Clark County, single-family residences comprise over 75% of all housing units.

### Race and ethnicity

Recent data on the proportion of income spent on housing by race is not available. However, it is clear that on average, racial and ethnic minorities have lower incomes and are disproportionately represented among those living in poverty. In Clark County, over 15% of the African American, Hispanic, and Native American population lives in poverty, compared to just 9% of non-Hispanic whites.

### Age

Aging-friendly homes meeting universal design criteria are scarce in Clark County. The percent of households living in unaffordable housing decreases with age.

### Geography

Dependence on automobiles can increase the proportion of income dedicated to housing and transportation combined. Areas outside of central Vancouver have limited transit service. Due to the lack of travel options and long travel distances, the housing + transportation index classifies many of these neighborhoods as unaffordable.

## Conditions needed to thrive

To thrive, residents need access to affordable housing that offers the benefits of stability and reduced stress, which translate into reduced risk for chronic disease. Housing, including transportation costs, should not place an undue financial burden on residents that limits or eliminates resources devoted to self-care and the care of their families.

Similarly, residents need housing options that will not expose them to toxins, disease, extreme temperatures, or risk of injury. Health is promoted when housing is located near parks, transit, healthy foods, and a variety of walkable destinations.



**Related plans, policies, and reports:** Sustainable, Affordable, Residential Development, 2008; Clark County 10-year Homeless Plan; 2010-2014 Consolidated Housing and Community Development Plan; Vancouver Housing Authority Report to the Community, 2011; Clark County Aging Readiness Plan, 2012

## Policy recommendations

| Goal   | Objective  | Policies & strategies  |
|--|--|--|
| 1. Fully implement the health-promoting policies in the existing Housing Element                 | In 2035, less than 66% of households will spend more than 45% of their income on housing and transportation costs. | <p>1.1 Prioritize implementation of existing policies that increase housing affordability, supply, and choice in compact, walkable neighborhoods</p> <p>1.2 Prioritize implementation of existing policies that emphasize compact, walkable neighborhoods</p>  |
| 2. Increase the proportion of housing in complete, walkable neighborhoods                        | In 2035, a majority of housing units will be in complete, walkable neighborhoods.                                  | <p>2.1 Increase the percent of housing units within walkable distance of a variety of land uses</p> <p>2.1.1 Identify opportunities in existing neighborhoods for zoning changes to allow small retail and service uses</p> <p>2.1.2 Use zoning and development incentives to direct new housing units toward areas with active transportation infrastructure, including bikeways, sidewalks, and transit service.</p> <p>2.1.3 Require multifamily residential developments to connect to adjacent services and transportation infrastructure</p>   |
| 3. Improve housing affordability by ensuring a county-wide increase in housing choice and supply | By 2035, the percent of housing within the UGA that is single-family residential will decrease.                    | <p>3.1 Meet the housing demands of emerging demographic groups</p> <p>3.1.1 Plan for increases in the millennial and baby boomer populations and their preferences, such as small household sizes and decreased automobile travel</p> <p>3.1.2 Change zoning to allow more areas to support diverse housing types, including small-lot, single-family, multifamily, duplexes, Accessory Dwelling Units, cottages, and co-housing</p> <p>3.1.3 Reduce residential parking minimums</p> <p>3.2 Work with cities to attain compliance with fair share housing goals</p> <p>3.2.1 Increase residential densities</p> |

| Goal   | Objective   | Policies & Strategies   |
|--|---|---|
| 4. Ensure equitable access to affordable, quality housing  | In 2035, housing meeting universal design criteria will be widely available.                                | <p>4.1 Increase the number of housing units that meet universal design criteria</p> <p>4.1.1 Inventory and track the amount and location of universal design housing</p> <p>4.1.2 Revise codes and implement programs to promote universal design</p> <p>4.2 Ensure that housing does not pose health risks to vulnerable populations</p> <p>4.2.1 Partner with Community Development Block Grant and Home programs to ensure health risks are addressed when rehabilitating housing</p> <p>4.2.2 Develop and implement a healthy housing checklist</p> <p>4.3 Adopt and implement the updated Clark County 10-year Homeless Plan</p> <p>4.4 Integrate market rate and affordable housing</p> |
| 5. Partner with stakeholders and organizations to exchange resources and educate the public on housing issues and generate healthy housing regulations | By 2013, there will be an expanding partnership of community organizations dedicated to affordable housing. | <p>5.1 Work with financial institutions, developers, non-profits, public agencies, and other partners to rehabilitate and construct affordable housing</p> <p>5.1.1 Explore innovative funding sources such as reverse mortgages, loan pools, and housing trust funds</p> <p>5.1.2 Relieve the permitting burden for affordable housing through fee waivers</p> <p>5.2 Educate community partners about universal design, demographic shifts, and health impacts of unaffordable housing</p>  |



## Climate Change and Human Health

Human beings are in every way connected to and dependent on the natural world. It is the physical source of all that protects and sustains individuals and communities.

### How climate change impacts health

Human health and well-being are inextricably linked to our climate. From the selection and planting times of the crops we grow, to the building materials we use, hundreds of decisions are shaped by our assumption of reasonably predictable weather and climate. As the climate changes, these assumptions will become less reliable.

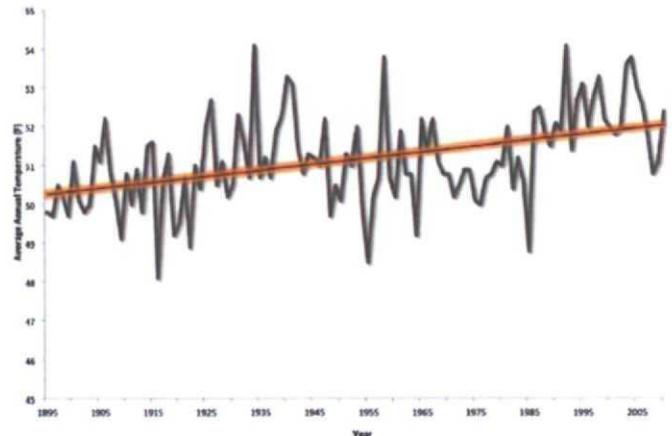
Decades of climate research have led nearly every scientific body in the world, and every major public health organization in the United States, to the same conclusion: global warming is accelerating rapidly, and poses a threat to human health and the health of the planet. It is critically important to slow the rate of climate change (mitigation) and to minimize its impact on human health, the environment, and the economy (adaptation).



*Weather is made up of short-term changes in the atmosphere, whereas climate is observed over years or decades.*

Weather is naturally variable, and winter storms engulfing the country sometimes make it hard to believe that the planet is warming. Climate takes that variability into account and looks at it for trends over decades or centuries. For example, global land and ocean temperatures vary year to year, but on average have increased steadily for the past 120 years.

**Average annual temperature in Vancouver, 1895-2010**



*Like the rest of the Northwest region, the temperature in Vancouver has risen by about 1.5 degrees during the past century.*

The amount of carbon dioxide (CO<sub>2</sub>) in the atmosphere also varies, but is at its highest level in the last 800,000 years. Early projections of climate change underestimated both the speed of change and the severity of the impacts. Temperatures are rising, glaciers and ice sheets melting, and long-term weather patterns are changing much faster than expected.

**Extreme heat**

Extreme heat causes more weather-related deaths in the United States than hurricanes, lightning, tornadoes, floods, and earthquakes combined. Every decade, the average temperature is expected to increase by another .5 degrees Fahrenheit, leading to longer, dryer, and more deadly summers. Extreme heat causes heat exhaustion and dehydration, especially among certain groups such as the elderly.

**Deteriorating air quality**

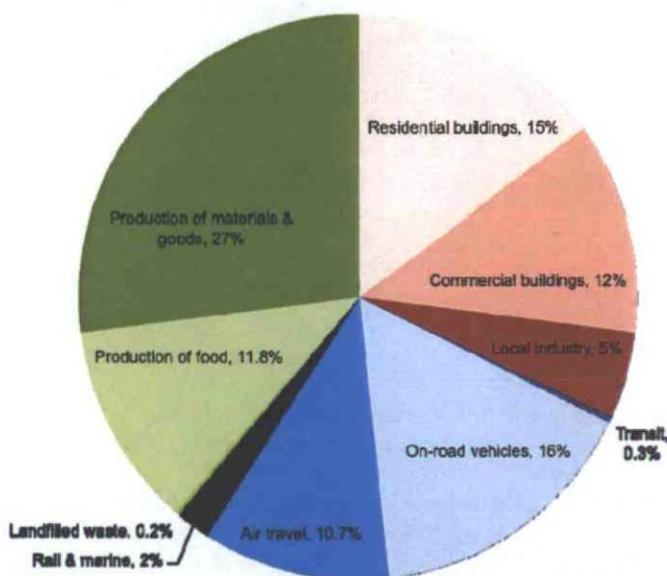
Air quality is affected by hot, dry summers. This climate increases the risk of smog and the likelihood of pollution from wildfires. Small particles suspended in the air are a by-product of fuel combustion, forest fires, allergens, and ground-level ozone (smog), which will all increase due to warming temperatures. As these particles are inhaled into the lungs, they increase the risk of infant mortality, cancer, respiratory disease, asthma, heart attack, and stroke.

**In Clark County**

By 2045, Clark County will experience between 20 and 50 extreme heat days when heat plus humidity create temperatures that “feel like” at least 99.5 degrees Fahrenheit. This is estimated to lead to over 30 excess heat-related deaths each year.

From 1998 to 2008, Clark County had zero days where air quality reached “unhealthy” levels for the general population and an annual average of 1.9 days that were unhealthy for sensitive populations.

**Greenhouse gas emissions in the City of Vancouver, 2007**



**Expected extreme heat days in Clark County in 2045**

| Warming scenario | Avg. # of heat days per year | Avg. # of days per heat event | Avg. “feels like” temp on heat days |
|------------------|------------------------------|-------------------------------|-------------------------------------|
| High             | 49.9                         | 3.4                           | 109.9                               |
| Middle           | 29.9                         | 2.6                           | 107.7                               |
| Low              | 20.8                         | 2.3                           | 107.1                               |

In 2045, as many as 50 days per year may exceed a “feels like” temperature of 99.5 degrees Fahrenheit. This is a dramatic increase from 2002-2006, when Clark County averaged just 16 heat days per year.

### Flooding

Climate change will cause precipitation to fall more often as rain rather than snow, leading to an increased likelihood of floods during the wet months. Floods cause property damage, landslides, and injuries from debris, and can contaminate drinking water with toxins and bacteria such as *E. coli*, Salmonella and Hepatitis A.

### Drought

Less precipitation in the summer will lead to hotter and dryer conditions. These dry conditions are exacerbated by declining snowpack. Families and business who rely on private wells are particularly at risk because a lack of snow might mean that the aquifer from which they draw may not be recharged by snowmelt. Accompanying drought conditions will be challenges for food production, as well as increased risk of wildfires.

### Shifting disease vectors and pathogens

In time, warming temperatures will create habitat for new diseases that seriously threaten humans, crops and other species. Researchers anticipate eventual vector-borne outbreaks of Lyme

#### In Clark County

The Clark County Hazards Inventory and Vulnerability Analysis (HIVA) finds that the likelihood of flooding in Clark County is high. CCPH estimates that 3% of the population lives in areas vulnerable to flooding.

From 2000-2009, Clark County averaged 15-33 low water days per year. The HIVA states Clark County is at high risk of more low water days during summer due to loss of snowpack and increased runoff.

As a result of climate change, water suppliers will have to produce 50% more water than they would have to supply just to keep up with population growth.

Flood hazards, 2010



disease; encephalitis and malaria, and Hantavirus. Algae blooms are more toxic and occurring more frequently, increasing the risk of contaminated shellfish. *Cryptococcus gattii* is historically a tropical fungal borne and pathogen, but since 1999 it has taken hold in British Columbia and spread to Washington, Oregon and California, with 338 confirmed human infections and 40 deaths. Other new diseases cause infections in plants. For example, the

pine beetle has spread to the Western Cascades, where white bark trees declined 41 percent by the mid 2000's, and nearly 80% of these trees in Mt. Rainer National Park have been infected. The spread of these organisms devastates healthy forests and increase the risks of fire.

#### **Mental health**

Researchers observed an escalation in many mental health problems following major weather events such as Hurricane Katrina and the recent Australian drought. Following catastrophic weather events, increased instances of Post Traumatic Stress Disorder, depression, increased domestic violence, child abuse, and suicides can be expected. Uncertainty and anxiety about the future may increase the percent of Clark County residents with poor emotional health.

#### **Dislocations and in-migration**

People adversely impacted by climate change, from outside of and within the United States, may seek to migrate to the Pacific Northwest.

#### **Exacerbating trends**

Clark County faces additional climate-related risks. Nearly 90% of food consumed in Clark County in 2007 was imported from out

#### **In Clark County**

Diseases such as Q fever, Lyme disease, Western Equine Encephalitis, and West Nile Virus are expected to spread in the Pacific Northwest.

Clark County, which grew 23% in the last decade, can expect to be more affected than many other parts of the country, as weather here is relatively moderate. With the exception of Oregon, most in-migration comes from states suffering from extreme heat, such as Texas, Arizona, and Florida.

of state. Droughts, floods, and crop losses in food-producing regions will limit food supply while increasing food costs. At the same time, declining oil reserves will eventually increase the cost of transportation, which will further increase the cost of food. The combined effects of increasing food and energy prices with Clark County's current reliance on imports and automobiles will make adaptation difficult.

#### **Disparities in Clark County**

##### **Socioeconomic status (SES)**

Because they have the fewest resources for adapting to a changing environment, those in lower socio-economic brackets disproportionately suffer the health impacts of climate change. Obtaining needed resources such as food, medical care, transportation or affordable housing will become increasingly difficult in a time of dwindling resources and heightened global competition.

##### **Age**

Under excessive heat stress, adults over 65, children, and infants under 1 year of age have shown greater sensitivity to all-cause mortality. Extreme heat, and the air pollution that accompanies it, also disproportionately impact pregnant women and persons with respiratory or cardiovascular disease.

##### **Geography**

People who live in rural areas or work outdoors may have greater risks of impacts from extreme heat and disease carrying vectors. People living near the coast or rivers risk exposure to extreme weather events such as flooding. Populations who rely on drinking water that originates in glacially fed aquifers are at risk of water shortages, while populations who rely on drinking water from river fed aquifers are at risk of salt-water intrusion.

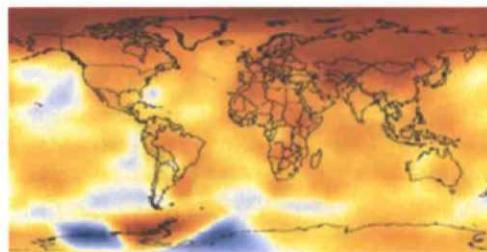
## Conditions needed to thrive

Climate change is a public health emergency that requires immediate action. To thrive, we must stabilize the global temperature. This requires mitigation – efforts to reduce emissions and their warming effects.

To thrive, we must protect ourselves against climate impacts that are already occurring, such as an increase in extreme heat days and the dwindling of glaciers that replenish our water supply. This requires adaptation – efforts to protect people from threats such as extreme heat events, loss of crops or water due to drought, or increased flooding due to sea level rise.

In an unprecedented time of increasing population, decreasing resources, and increasing risks from climate change, both mitigation and adaptation are necessary if we are to survive and thrive.

**Map of 2000-2009 temperatures compared to 1951-1980 averages (red hotter, blue cooler). This was warmest decade since modern record keeping began.**



**Related plans, policies, and reports:** Sustainable, Affordable Residential Development, 2008; Creating a More Sustainable Vancouver, 2009; Sustainability Performance Report, 2010; Clark County Hazard Inventory and Vulnerability Analysis, 2011

## Policy recommendations

| Goal   | Objective  | Policies & strategies  |
|--|--|--|
| 1. Determine how Clark County can adapt to and mitigate climate change to protect health | In 2013, Clark County will have a highly engaged Climate Action Committee providing the Board of County Commissioners with guidance on how the community can adapt to and mitigate climate change impacts. | <p>1.1 Convene a countywide Climate Action Committee dedicated to this content area, with participation by high level officials from C-Tran, public utilities, waste management, economic development/business, Port of Vancouver, Clark Regional Emergency Services Agency, Public Health, municipalities, other affected departments and sectors and the public at large</p> <p>1.1.1 Identify local vulnerabilities that will put the population's health at risk as the climate continues to warm</p> <p>1.1.2 Update and maintain a Greenhouse Gas inventory by sector and identify how to achieve the greatest reduction for the least cost</p> <p>1.1.3 Communicate climate risks to public and provide education on the need for adaptation and mitigation strategies and how they can participate in both</p> |

| Goal  | Objective   | Policies & strategies  |
|---|---|--|
| 2. Develop plans to mitigate climate change | By 2015, Clark County will be implementing strategies to: <ul style="list-style-type: none"> <li>Decrease greenhouse gas emissions</li> <li>Absorb CO<sub>2</sub></li> <li>Diversify and distribute clean energy</li> </ul> | 2.1 Develop plans to decrease carbon emissions <ul style="list-style-type: none"> <li>2.1.1 Promote active transportation through improving the bike/pedestrian environment (e.g. complete streets, compact development, additional miles of bikeways and sidewalks)</li> <li>2.1.2 Promote vehicle efficiency through electric car charging stations and high-efficiency fleets, buses, and delivery vehicles</li> <li>2.1.3 Encourage more local food production, processing, and distribution to reduce freight emissions</li> <li>2.1.4 Retrofit existing buildings for energy efficiency</li> <li>2.1.5 Implement aggressive energy efficiency codes for new construction</li> <li>2.1.6 Increase telecommuting</li> </ul> 2.2 Develop plans to absorb carbon dioxide <ul style="list-style-type: none"> <li>2.2.1 Preserve and plant trees</li> <li>2.2.3 Encourage use of native plants</li> <li>2.2.4 Restore and expand urban and rural forest</li> </ul>   |
| 3. Conserve and preserve resources          | By 2015, Clark County will be implementing strategies to sustain farmland and conserve water.   | 3.1 Maximize the percentage of energy used that comes from renewable sources <ul style="list-style-type: none"> <li>3.1.1 Support on-site and district energy (heating, cooling and hot water) for buildings clusters</li> <li>3.1.2 Design buildings to reduce heat absorption</li> <li>3.1.3 Revise building codes and design guidelines to allow for and encourage passive solar design, green roofs, active solar and other renewable energy</li> </ul> 3.2 Conserve finite resources <ul style="list-style-type: none"> <li>3.2.1 Reduce water use and increase efficiency through retrofitting incentives, educating and mandating conservation measures</li> <li>3.2.2 Restore and retain all existing farmlands to assist with local food production</li> <li>3.2.3 By ordinance, planning support, or incentives, restore and retain farms and protect agricultural lands from development</li> </ul> 3.3 Decrease per-capita energy consumption <ul style="list-style-type: none"> <li>3.3.1 Incentivize energy efficiency retrofits for existing buildings</li> </ul> |

| Goal  | Objective   | Policies & strategies  |
|---|---|--|
| 4. Prepare for climate change impacts by developing adaptation plans. | By 2015, Clark County will have assessed local risks, developed a response plan, initiated ordinances or other actions needed to prevent harm, and educated the public. | <ul style="list-style-type: none"> <li>4.1 Protect the public's health from climate change impacts               <ul style="list-style-type: none"> <li>4.1.1 Decrease impervious surfaces that increase temperatures and generate water runoff</li> <li>4.1.2 Identify areas at high risk for flooding, fire, and extreme temperatures and take preventive action to address the threat (e.g. expand flood plain boundaries)</li> <li>4.1.3 Review and modify emergency response plans to anticipate and prepare for impacts of climate change, including extreme heat, flooding, contagion, and deteriorating air quality</li> </ul> </li> </ul> |



## Environmental Quality

Clean air and clean water are among the most basic necessities for health and for prevention of exposure to toxins harmful to human health.

### How environmental quality impacts health

Contamination of air and water, including toxins from industry, household products, and vehicle emissions, can lead to many chronic diseases.

#### Human exposure to environmental toxins

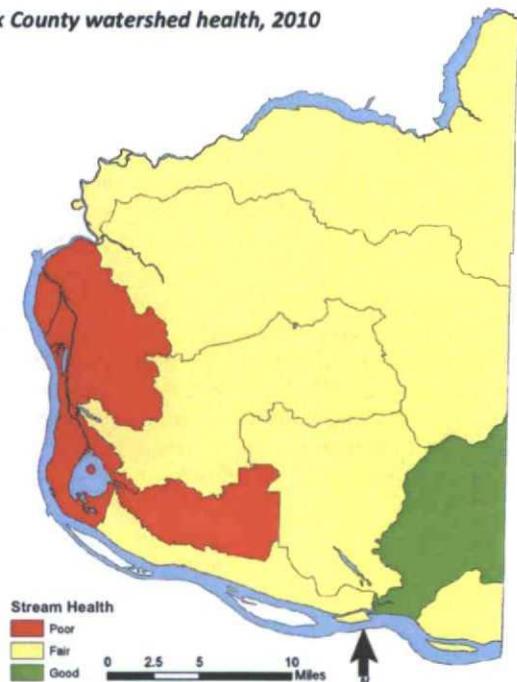
There are two primary ways that toxins are released into the environment: point source pollution and nonpoint source pollution. Point source pollution refers to toxins that originate from a single site, such as chemical spills, leaking storage tanks, or illegal dumping. Nonpoint source pollution refers to toxins in the air or on land that are widely dispersed by wind or precipitation runoff.

Humans can be exposed to pollutants through direct contact with toxins, inhalation, ingestion, or use of products made from chemicals that can enter the human body through skin contact. The Centers for

### In Clark County

The Environmental Protection Agency (EPA) has found that Clark County relies on a sole source water supply, meaning that no other source is reasonably or legally available. By 2005, stress on Clark County's Troutdale aquifer had decreased water levels by ten feet or more. Further loss is threatened by increased demand and declining recharge from reduced snowmelt.

Clark County watershed health, 2010



In 2010, of 10 watersheds, one was in good health, three in poor health, and the rest in fair condition.

Disease Control and Prevention studied the dispersion and absorption rate of 300 of 80,000 industrial chemicals, few of which have ever been tested for health impacts. They found that 219 (73%) were present at some level in a significant number of people. The EPA has identified 187 toxic air pollutants from industrial, commercial and vehicular emissions that are known or suspected to cause serious health problems such as cancer or birth defects.

#### Common contaminants

Although the risk of exposure to environmental toxins varies by geography, people experience some level of toxic exposure in all areas of the United States.

Benzene is among the top 20 chemicals for production volume and an ingredient in products such as gasoline, glues, paints, furniture wax, and detergents. A known carcinogen, benzene is generally found in higher volumes in indoor air primarily due to its presence in tobacco

#### In Clark County

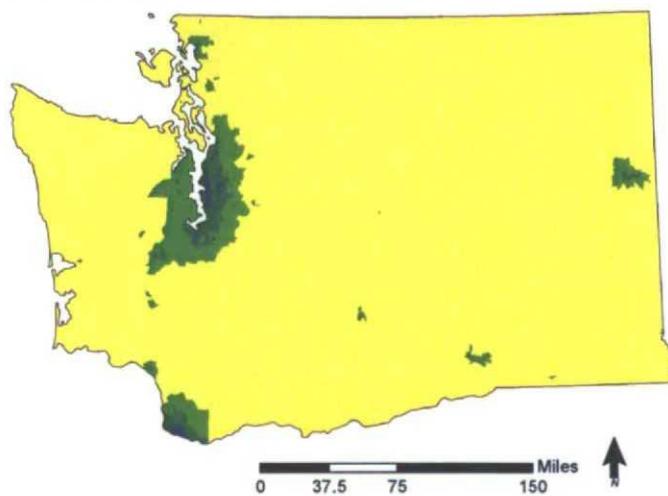
Vehicle emissions and wood fires are the main sources of pollution in Clark County, which currently meets healthy air standards. In 2009, Clark County met EPA standards for particulate matter on all but six days. However, the Southwest Washington Clean Air Agency and the Oregon Department of Environmental Quality have conducted studies estimating that by 2017, diesel particulates will reach five times the healthy level for much of Clark County.

In Clark County, 24 facilities emitted or disposed of toxic chemicals in 2009, according to the Environmental Protection Agency (EPA). These chemicals can be safe if disposed of correctly. In 2010, Cowlitz, Lewis, Clark and Multnomah counties combined released or disposed of over 6 million pounds of toxic chemicals.

smoke. It is also emitted from gas stations, underground storage tanks, and heavily trafficked roads. Individuals exposed to high levels of benzene may develop and die from leukemia within five to fifteen years.

Ground level ozone is created by emissions from industrial facilities, electric utilities, motor vehicle exhaust, gasoline vapors, and chemical solvents interacting with sunlight. Health risks include increased

#### *Cancer risk from air pollution in Washington, 2005*



*Darker colors represent areas with higher cancer risk from air pollution. Clark County residents face additional risks similar to those throughout North America. Persistent bioaccumulative toxins transmitted through food also contribute to cancer risk.*

susceptibility to pneumonia and bronchitis, inflammation and scarring of the lung, exacerbation of asthma and respiratory diseases, and increased mortality.

Particulate Matter (PM) refers to very small air-borne particles that can enter the body through inhalation into the lungs. Exposure may cause respiratory and heart problems, asthma symptoms, adverse birth outcomes, lung cancer, decreased lung growth in children, and early death. The largest sources in Clark County in 2005 are listed in the table below.

Persistent organic pollutants are substances that degrade very slowly and accumulate in food and animal tissues. Many are used in industrial and household products such as furniture, electronics, and adhesives.

**In Clark County**

The EPA classifies Clark County as a high-risk location for radon exposure. In Clark County, 21% of homes tested registered unsafe levels of radon.

Though banned in 1979, a 2005-2006 study of Vancouver Lake found Polychlorinated Biphenyl (PCB) levels exceeded EPA criteria.

Exposure to arsenic through well water can be a significant risk in northwest Clark County.

About 90% of Clark County households report they do not allow smoking inside their homes.

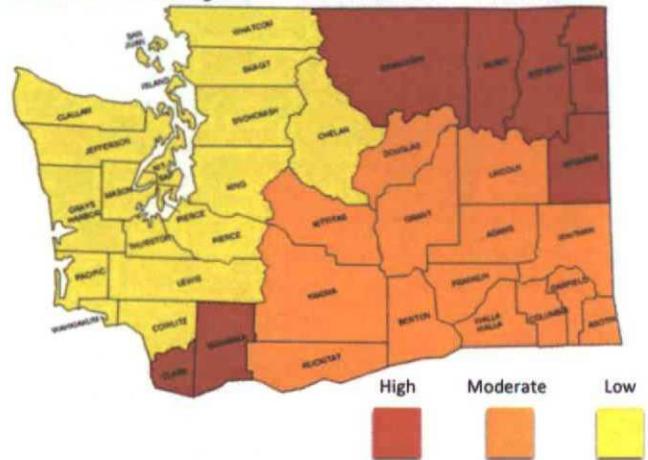
| Particulate Size | Largest sources in Clark County (2005)  |
|------------------|---|
| PM10             | Wood stoves & fire places (29%), road dust (26%), point sources (16%)                   |
| PM 2.5           | Wood stoves & fire places (47%), point sources (18%), residential outdoor burning (11%) |
| Diesel PM 2.5    | On-road mobile sources (30%), non-road mobile sources (46%), ships (12%)                |

Polychlorinated Biphenyl (PCB) is one such pollutant that affects the neurological, reproductive, and immune systems, and may be carcinogenic. Levels of PCBs in the environment were zero before they were manufactured, and have decreased in the US since banned in 1979. All people in industrial countries have some PCBs in their bodies, but generally at a level that does not pose a health risk.

Naturally occurring toxins also exist. Radon, a gas occurring in bedrock that can infiltrate homes if not properly vented, and is the second leading cause of lung cancer. Ingestion of arsenic, a metal found in numerous aquifers throughout the country, is linked to skin, bladder, liver, and lung cancer.

Indoor air pollutants may include asbestos, carbon monoxide, mold, radon, and formaldehyde. Smoking is the leading cause of lung cancer, and second-hand smoke causes cancer, heart disease, Sudden Infant Death Syndrome (SIDS), and asthma.

**Radon risk in Washington**



## Disparities in Clark County

### Socioeconomic status (SES)

There is a moderate positive correlation between the percent of census tract populations living in poverty and the cancer risk from air toxins. The risk of cancer from ambient air toxins increases somewhat as the percent of population in poverty increases, meaning that people living in census tracts with high poverty also tend to have increased risk of cancer caused by air pollution. Statewide patterns of cancer risk suggest a strong association with density, and the denser census tracts in Clark County tend to have higher poverty levels and a greater density of roads and auto traffic. These coincident factors may explain variation in risk more than poverty itself.

The risk of disproportionate exposure to drinking water contaminants faced by lower SES populations is low in Clark County. Low SES populations are concentrated in urbanized areas, and are therefore less likely to depend on private wells vulnerable to contamination. All Clark County census tracts with high poverty rates are served by municipal water systems, which are subject to regular monitoring, reporting, and treatment.

### Race and ethnicity

Clark County Public Health found a moderate positive correlation between cancer risk and the percent of census tract population that is non-white. Like low SES populations, racial and ethnic minorities make up a larger share of the population in densely populated areas of Clark County, which tend to have higher cancer risk.

Racial and ethnic minorities have a low risk of disproportionate exposure to drinking water contaminants. As a result of their concentration in urban areas, there is a higher likelihood that their drinking water comes from municipal water systems with regular

monitoring.

### Age

Older adults in Clark County face a higher risk of hospitalization due to asthma. Children everywhere are disproportionately impacted by toxins, which can harm healthy development.

### Geography

The risk of exposure to air toxins is greater in denser, urbanized areas in the southern part of the county. Conversely, vulnerability to water contamination is greater in northern parts of the county, where more of the population relies on unmonitored private wells.

## Conditions needed to thrive

People need to be able to breathe air, eat foods, and drink beverages that are not contaminated by toxic pollutants. While the number of toxins already in our environment means the total elimination of threat is unrealistic, every action taken to prevent further emission of toxins, clean up existing pollutants, protect residents from avoidable exposures, and ensure the availability of essential natural resources, is an action that will promote a healthier community.



**Related plans, policies, and reports:** Salmon-Washougal and Lewis Watershed Management Plan, 2006; Ozone Maintenance Plan, 2006; Vancouver Carbon Monoxide Maintenance Plan, 2007; Sustainable, Affordable Residential Development, 2008; Creating a More Sustainable Vancouver, 2009; Sustainability Performance Report, 2010; Clark County Stream Health Report, 2010; Clark County Stormwater Management Plan, 2011

## Policy recommendations

| Goal  | Objective   | Policies & Strategies  |
|---|---|--|
| 1. Protect residents from exposure to direct, indirect and cumulative impacts of outdoor air pollutants | By 2035, cancer risk from air pollution will decrease in Clark County.  | <ul style="list-style-type: none"> <li>1.1 Reduce toxic emissions from automobiles                             <ul style="list-style-type: none"> <li>1.1.1 Reduce dependence on automobiles by land use polices that promote compact and transit-oriented development, jobs/housing balance, walking and bicycling infrastructure, and traffic patterns that reduce congestion and idling time</li> <li>1.1.2 Encourage and support low emission and energy-efficient vehicles through actions such as providing sulfur free diesel or establishing network of electric vehicle charging stations</li> <li>1.1.3 Expand tree cover near freeways and other highly motorized routes</li> </ul> </li> <li>1.2 Reduce toxic emissions from freight and equipment                             <ul style="list-style-type: none"> <li>1.2.1 Collaborate with ports, industry, and regulatory agencies to develop a comprehensive emissions reduction plan for freight-related emissions</li> <li>1.2.2 Explore use of low-emission vehicles, short-sea shipping service to reduce truck and rail impacts, and shore power such as electric outlets that provide power for stationary ships without burning fossil fuels.</li> </ul> </li> <li>1.3 Reduce toxic emissions from stationary sources                             <ul style="list-style-type: none"> <li>1.3.1 Assess and develop strategies to reduce air pollution from stationary source emitters such as industries, power plants and commercial and residential buildings</li> <li>1.3.2 Provide health messaging to ensure the public is aware of the risks of common toxins and has information to help mitigate these risks.</li> </ul> </li> </ul> |
| 2. Protect residents from exposure to indoor air pollutants   | By 2035, indoor air pollutants will decrease and testing will increase. | <ul style="list-style-type: none"> <li>2.1 Reduce indoor air pollutants                             <ul style="list-style-type: none"> <li>2.1.1 Develop and adopt guidelines for indoor air quality in residential and commercial units along high traffic corridors, and implement through code revisions</li> <li>2.1.3 Expand programs to reduce exposure to harmful effects of second-hand smoke in indoor and outdoor areas</li> <li>2.1.4 Ensure that new construction, remodeling and renovation projects include assessment and mitigation of risk of exposure to radon</li> <li>2.1.5 Monitor radon levels and mold by compiling residential test results</li> <li>2.1.6 Work with home rehabilitation programs and Clark County Community Development to ensure radon testing and mitigation are in place for new and improved buildings</li> </ul> </li> </ul>   |

| Goal   | Objective   | Policies & Strategies  |
|--|---|--|
| 3. Prioritize environmental justice by directing mitigation efforts to areas with low-income, racial and ethnic minority, youth, and aging populations | By 2025, mitigation policies will have been implemented in all areas where high concentrations of at-risk populations reside, work or play. | <p>3.1 Direct mitigation efforts to those most at risk of exposures to pollutants or most sensitive to impacts</p> <p>3.1.1 Develop emissions mitigation plans for areas around schools, childcare centers, parks and playgrounds, hospitals, elder housing, and community gathering places</p> <p>3.1.2 Collaborate with the port, freight operators, local businesses and regional and state transportation agencies to develop new routes that divert diesel emitting vehicles from sensitive areas while ensuring efficient movement through the Port and industrial areas</p> <p>3.1.3 Continue to pursue smoke-free policies for housing, work places, and public places</p> <p>3.2 Protect at-risk populations by siting future facilities they will use (e.g. schools, hospitals, residences, elder and childcare facilities) away from traffic and polluting industrial sites, and mitigate impacts to existing sites</p> <p>3.2.1 Implement anti-idling requirements for school buses and other heavy-duty vehicle operators</p> <p>3.2.2 Manage travel demand around sites with vulnerable populations to minimize automobile travel</p> <p>3.2.3 Promote non-polluting energy sources around sites with vulnerable populations</p> |
| 4. Provide equitable access (private and public) to high quality drinking water with sustainable long-term availability                                | By 2015, monitoring and reporting programs for small public drinking water systems (Group B) and private wells will be in place.            | <p>4.1 Protect the public from drinking water contamination</p> <p>4.1.1 Protect surface water quality by working with public and private property owners to reduce contaminated storm water runoff</p> <p>4.1.2 Work with property/business owners to reduce soil and water contamination from industrial operations and other activities that use, produce or dispose of hazardous or toxic substances</p> <p>4.1.3 Develop a permit program for small group public drinking water systems (Group B) to ensure that water quality is monitored</p> <p>4.2 Protect residents on private wells from health risks due to water quality or quantity problems</p> <p>4.2.1 Monitor water resources in the aquifer and promote aggressive conservation efforts</p> <p>4.2.2 Increase uses of recycled (gray) water, including for landscaping and home irrigation</p> <p>4.2.3 Require notice to title when any private well has tested positive for arsenic at levels above safe standards</p>  |



## Safety and Social Connections

Built environments can improve health when they ensure safe access to essential services, parks, healthy food stores, and gathering places for social interaction.

### How safety and social connections impact health

#### Neighborhoods and health

Neighborhoods can be defined as geographic areas and social networks that provide a community's human infrastructure.

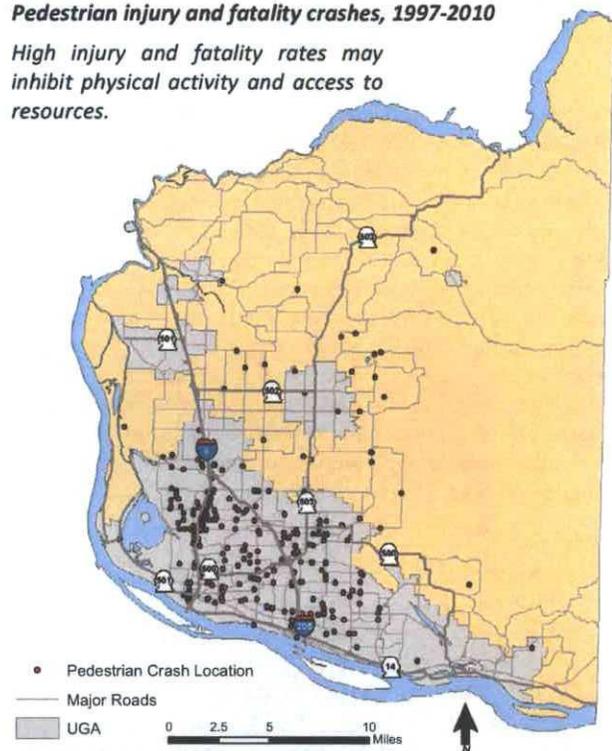
Other sections of Growing Healthier report address the health benefits of active transportation, parks and open space, and the proximity of healthy food choices. Access to these and other community resources generally begins by passage from home and through a neighborhood: in order to take that journey it is essential that people feel safe to move around in their world.

#### The built environment impacts health and safety

Neighborhoods can undermine a sense of safety by structural and design characteristics such as narrow sidewalks, dead-end streets and alleys, high speed limits, or the absence of crosswalks. Research shows that a high number of convenience and liquor stores in a neighborhood are associated with higher rates of obesity, teen smoking, physical assaults, and alcohol-related traffic crashes. Children and adolescents who perceive their neighborhood as unsafe are less likely to go for walks or use public parks, and are less physically active than those who live in safer environments. The odds of being obese or overweight are 20-60% higher among children in neighborhoods with unfavorable social conditions, such as unsafe surroundings or poor

#### Pedestrian injury and fatality crashes, 1997-2010

High injury and fatality rates may inhibit physical activity and access to resources.



housing, than among children not facing such barriers. Adverse health outcomes associated with lack of safety include obesity, chronic stress, heart disease, and poor mental health.

Crime Prevention Through Environmental Design (CPTED) is a method of reducing crime through passive design features. Examples include natural surveillance approaches such as designing streets for connectivity, designing safe sidewalks and bike lanes to promote pedestrian and bicycle activity, improving sightlines through lower fences and landscaping, and orienting windows to provide eyes on the street.

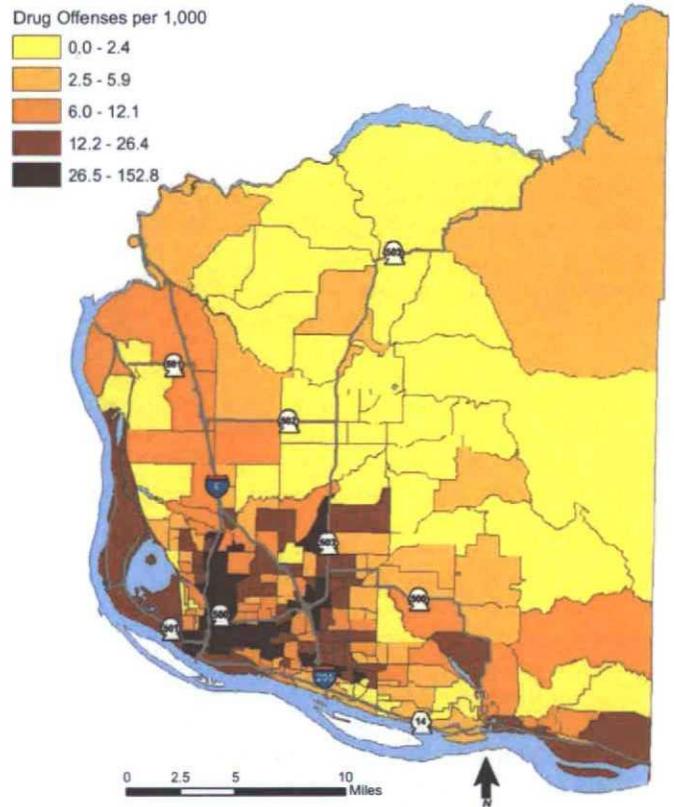
#### The social environment can enhance health and safety

In close-knit neighborhoods, residents are more likely to work together to achieve common goals and model healthy behaviors that can positively influence youth. Researchers conclude that even in at-risk neighborhoods, a high degree of social cohesion is a strong predictor of lower rates of violence. Among middle school youth, positive connections to school and social groups is associated with better mental health, less risk of smoking, less risk of marijuana use, and higher graduation rates. In adults, strong social connections can help reduce stress, assist in coping, improve access to material support such as transportation or information, and improve mental health. Social connections can be fostered by features of the built environment that provide opportunities for interaction, such as parks, plazas, small businesses, or even front porches.

#### In Clark County

Trust is a commonly used indicator of social connectedness. In 2006, about 51% of Clark County adults reported that they thought most people can be trusted, about the same as the statewide rate of 57%. In a separate, non-scientific survey of 685 Clark County residents in 2011, about 60% of survey respondents said they feel safe walking alone day or night.

**Drug offenses by census block group, 2009**



*Built and social environments can decrease crime rates and increase the health of a neighborhood and its residents.*

For individuals, lack of a social network is associated with higher rates of morbidity and mortality, depression, and cognitive decline, across all age groups. Between 1980 and 2010, the number of people living alone increased by 40 percent to almost 31 million individuals. This is expected to increase the risk of isolation for some groups.

“Third places” provide a social space separate from home and work, and play an important role in enhancing social connectedness, a sense of responsibility, and natural neighborhood surveillance. Such places provide venues for people to meet and engage with neighbors formally or informally (e.g. a coffee shop, community center, plaza, library or park).

*“Third places” provide opportunities for social interaction and community-building. Buildings oriented to public spaces also provide natural surveillance, and enhancing the comfort of users.*



### In Clark County

While Clark County has many examples of safe public spaces, such as community centers and parks, it is also dominated by a pattern of drivable suburban development that decreases opportunities for interaction. In a 2011 Clark County survey of 685 residents, only 27% said they have a local gathering place for social interaction, indicating the need for this design element as part of neighborhood development.

## Disparities in Clark County

### **Socioeconomic status (SES)**

Social connectedness measured by trust level varies by residents with different household income levels. Residents with a median household income of \$50,000 or more are much more likely to feel that people can be trusted in general (63%) compared to those with incomes of less than \$20,000 (37%) and those with incomes between \$20,000 and \$50,000 (43%).

In 2010 the poverty rate in Clark County was about 11%, slightly below the statewide rate of 12%. There are correlations between some crime rates and low-income neighborhoods, suggesting that these areas may be most in need of changes to the built environment that enhance the safety of residents and to build a sense of social connectedness.

### **Race and ethnicity**

Crime rates are somewhat higher in areas with a higher percent of non-white residents. There is a significant but weak correlation between crime offenses and the percent of block group residents who are non-white, especially in the Vancouver area. For injuries, there is evidence that crash risk is higher among non-white populations.

### **Age**

Unintentional injuries are the leading cause of death for Clark County residents up to age 44 years. In 2009, unintentional injuries accounted for 37% of the deaths in the 0-44 age group compared to 4% for those 45 and older. About 33% of these deaths were related to traffic crashes in 2010. Studies show that crash risk is higher around schools.

## Conditions needed to thrive

Healthy neighborhoods provide the opportunities people need to thrive, including:

- Quality housing
- Access to physical activity
- Access to healthy foods
- Traffic calming
- Public environments (safe parks, plazas, and meeting places) that allow residents to interact and develop or maintain social ties.

These conditions promote social cohesion and social capital and enhance health, social and economic opportunities.



Related plans, policies, and reports: Clark County Aging Readiness Plan, 2012.

## Policy recommendations

| Goal   | Objective  | Policies & strategies   |
|--|--|---|
| 1. Increase opportunities for social interaction | By 2035, the percent of residents surveyed saying that "most people can be trusted" will increase. | <p>1.1 Improve social cohesion by prioritizing public involvement in decision making.</p> <p>1.2 Create safe public spaces</p> <p>1.2.1 Work with residents to identify or create one safe public space in every neighborhood</p> <p>1.2.2 Require that new development includes public space within a ten-minute walk</p> <p>1.2.3 Design public spaces to include access to transit stops, bicycle and pedestrian infrastructure, green space, commercial amenities, and weather protection</p> <p>1.2.4 Develop a process to accommodate citizen-led efforts to enhance public spaces, such as street paintings or other innovative uses</p> <p>1.3 Ensure opportunities for private development of gathering places near housing, such as cafes and small retailers</p> <p>1.3.1 Identify opportunities to re-zone land to neighborhood commercial in areas dominated by a single use</p> |

| Goal  | Objective   | Policies & strategies   |
|---|---|---|
| 2. Ensure that safety is not a barrier to accessing health-supportive features of neighborhoods | By 2035, all neighborhoods will see a decrease in crime rates.  | <p>2.1 Build neighborhoods that discourage crime</p> <p>2.1.1 Collaborate with law enforcement to apply Crime Prevention Through Environmental Design (CPTED) principles to all new development projects</p> <p>2.2.2 Increase natural surveillance by programming public spaces</p> <p>2.2 Increase real and perceived safety in existing neighborhoods</p> <p>2.2.1 Collaborate with law enforcement to organize neighborhood watch groups and community policing efforts</p> <p>2.2.2 Increase the safety and comfort of pedestrian and bicycle facilities by increasing separation from fast moving vehicles, reducing crossing distances, and calming traffic</p> <p>2.2.3 Allow and encourage temporary uses of vacant or unused property, including community gardens, retail, and meeting space</p> <p>2.2.4 Implement graffiti abatement and façade grant programs</p> <p>2.2.5 Encourage and support property owners in maintaining and upgrading their property</p> <p>2.3 Minimize neighborhood exposure to health impacts of alcohol, tobacco, and other harmful drugs</p> <p>2.3.1 Establish buffers around schools and parks in which alcohol and tobacco sales are prohibited</p> <p>2.3.2 Establish maximum densities for alcohol retail outlets</p> <p>2.3.3 Continue to pursue tobacco-free policies for housing, workplaces, and public place</p> |
| 3. Strive for neighborhoods that are economically and culturally diverse                        | In 2035, the percent of population living in high poverty ( $\geq 20\%$ ) census tracts will be stable or decreasing. | <p>3.1 Ensure that all neighborhoods are communities of opportunity</p> <p>3.1.1 Diversify housing to provide for a range of incomes within neighborhoods</p> <p>3.1.2 Mix subsidized housing units with market-rate housing</p> <p>3.2 Prioritize sub-area planning in areas of high poverty</p> <p>3.2.1 Intensify affordable housing efforts in these areas</p> <p>3.2.2 Identify housing that poses health risks and coordinate efforts to resolve issues of inadequate or unhealthy housing</p>  |

## Appendix A: Glossary

*Note that items listed may be referenced in either Growing Healthier Report or Background Papers. Concepts that were explicitly defined in the Growing Healthier Report may not be repeated here.*

**Absolute food desert:** An area farther than ½ mile from any food retailer.

**Accessory Dwelling Unit (ADU):** A self-contained housing unit incorporated within a single-family dwelling or accessory structure such as a garage on the same lot. It is a auxiliary or smaller than the main single-family dwelling.

**Agricultural districts/preservation areas:** Legally recognized areas designed to maintain agricultural land uses. These areas may voluntarily enroll in programs and may receive special benefits and protection from regulation.

**Aquifer:** A water-bearing geologic formation, sometimes confined between clay layers and sometimes on the surface. Aquifers are the source of ground water for drinking and irrigation.

**Built environment:** Human-made surroundings consisting of buildings, infrastructure, parks, and arrangement of land uses that form the physical character of a city and provide a setting for human activity

**Chronic disease:** Sickness that is long-lasting or recurrent. Examples include diabetes, asthma, and heart, kidney and lung disease.

**Ciclovía:** The temporary closure of streets to motorized traffic to allow

bicycling, walking, running, and a variety of active and educational activities.

**Climate Action Plan:** A description of the policies and measures that a local government will take to reduce greenhouse gas emissions and achieve its emissions reduction targets. Most plans include a timeline, a description of financing mechanisms, and an assignment of responsibility to departments and staff. In addition to direct greenhouse gas reduction measures, most plans incorporate adaptation and public awareness and education efforts as well.

**Climate change:** Any long-term significant change in the weather patterns of an area, which can occur naturally or by changes people have made to the land or atmosphere.

**Community food security:** In the broadest terms, community food security can be described as a prevention-oriented concept that supports the development and enhancement of sustainable, community-based strategies to improve access of low-income households to healthful, nutritious food supplies, to increase the self-reliance of communities in providing for their own food needs, and to promote comprehensive responses to local food, farm, and nutrition issues.

**Community-Supported Agriculture (CSA):** A partnership of mutual commitment between a farm and a community of supporters, which provides a direct link between the production and consumption of food.

**Compact design:** Refers to the act of constructing buildings vertically

rather than horizontally, and configuring them on a block or neighborhood scale that makes efficient use of land and resources, and is consistent with neighborhood character and scale. Compact building design reduces the footprint of new construction, thus preserving green space to absorb and filter rain water, reducing flooding and stormwater drainage needs, and lowering the amount of pollution washing into our streams, rivers and lakes. Compact design can contribute to sustaining transit ridership at levels necessary to make a viable transportation option.

**Comprehensive Plan:** Regional, state, or local documents that describe community visions for future growth. Comprehensive plans describe general plans and policies for how communities will grow and the tools that are used to guide land use decisions, and give general, long-range recommendations for community growth. Typical elements include land use, housing, transportation, environment, economic development, and community facilities.

**Density:** The average number of people, families, or housing units on one unit of land. Density is also expressed as dwelling units per acre.

**Density bonus:** Allows developers to build in specified areas at densities that are higher than normally allowed in return for agreeing to design features or building characteristics with public benefits.

**Design standards:** Design standards or guidelines can serve as a community's desire to control its appearance, from within and without, through a series of standards that govern site planning policies, densities, building heights, traffic and lighting.

**Determinants of health:** The social and economic environment, the physical environment, and the person's individual characteristics and behaviors. To a large extent, these factors all have considerable impacts on health, whereas the more commonly considered factors

such as access and use of health care services, often have less of an impact.

**Disparities:** Differences in health outcomes, access to resources, or access to opportunity based on race, ethnicity, geography, gender, socioeconomic status, or other factors.

**District energy:** A district energy system consists of a central plant that produces steam, hot water, or chilled water, to provide space heating, domestic hot water, heating, and air conditioning. The water or steam is delivered through a network of pre-insulated buried pipes to a clustered community of commercial, industrial, and/or residential customers. As a result, individual buildings don't need their own boilers, furnaces, and cooling systems saving money and energy. When designed with a combined heat and power plant the system can also provide electricity.

**Environmental justice:** The principle that all people have a right to be protected from environmental pollution and to live in and enjoy a clean and healthful environment. Environmental justice is the equal protection and meaningful involvement of all people with respect to the development, implementation, and enforcement of environmental laws, regulations, and policies and the equitable distribution of environmental benefits.

**Environmental Protection Agency (EPA):** The federal body charged with responsibility for natural resource protection and oversight of the release of toxins and other threats to the environment.

**Extreme heat:** generally refers to a percentage of the highest heat days during a given time period, and usually taking humidity into account.

**Extremely low income:** defined by the US Department of Housing and Urban Development as households earning 30 percent or less of the

median income for the county.

**Flood hazard area:** The total stream and adjacent area periodically covered by overflow from the stream channel. Flood hazard areas contain 1) the floodway which is the channel itself and portions of the immediately adjacent overbank that carry the major portion of flood flow, and 2) the flood fringe beyond it which is inundated to a lesser degree.

**Flood plain:** The land adjacent to a water body, stream, river, lake or ocean that experiences occasional flooding.

**Global warming:** An ongoing increase in the average temperature of the Earth's surface in recent decades resulting primarily from human activities, principally the burning of fossil fuels, that release greenhouse gases. An increase in global temperatures is expected to raise sea levels, increase the frequency and intensity of storms, and alter the amount and pattern of precipitation and agricultural yields, among other effects.

**Green building or green design:** Building design that yields environmental benefits, such as savings in energy, building materials, and water consumption, or reduced waste generation.

**Greenhouse gas (GHG):** Heat-trapping gases that exist in the atmosphere of Earth and cause the greenhouse effect. Some greenhouse gases occur naturally, while others result from human activities such as the burning of fossil fuels. Greenhouse gases include carbon dioxide, methane, nitrous oxide, and ozone.

**Groundwater:** All water below the surface of the land. It is found in the porous spaces of bedrock or soil, and it reaches the land surface through springs or wells.

**Growth management:** A term that encompasses a whole range of

policies designed to control, guide, or mitigate the effects of growth.

**Human capital:** People's knowledge, skills, health, or values in the workplace. They are called human capital because they cannot be separated from the person. Economists view education, training, and health as the most important investments in human capital.

**Inclusionary zoning:** A system that requires a minimum percentage of lower and moderate income housing to be provided in new developments. Inclusionary programs are based on mandatory requirements or development incentives, such as density bonuses.

**Infill development:** Projects that use vacant or underutilized land in previously developed areas for buildings, parking, and other uses.

**Infrastructure:** Water and sewer lines, roads, urban transit lines, schools and other public facilities needed to support developed areas.

**Land use:** The manner in which a parcel of land is used or occupied, including the activities and buildings that occupy it.

**Leadership in Energy and Environmental Design (LEED):** A Green Building Rating System that is a nationally accepted benchmark for the design, construction, and operation of high performance green buildings. Administered by the U.S. Green Building Council, LEED promotes a whole-building approach to sustainability by recognizing performance in five key areas of human and environmental health: sustainable site development, water savings, energy efficiency, materials selection, and indoor environmental quality.

**Loan pools:** Loans acquired by the FDIC from failed financial institutions that are generally sold in pools through sealed bid sale or English outcry auction.

**Low income:** defined by the US Department of Housing and Urban Development as households earning 80 percent or lower than the

median income of the county where a person lives.

**Mixed-use development:** Development that includes multiple land uses within one building, on one parcel, or on adjacent parcels. A common example is residential buildings with ground-floor retail.

**Modal split:** The percentage of travelers using each mode of transportation.

**Non-point source pollution:** Pollution that cannot be identified as coming from a specific source and thus cannot be controlled through the issuing of permits. Storm water runoff and some deposits from the air fall into this category.

**Open space:** Undeveloped land or land that is used for recreation. Farmland, cemeteries, golf courses, and natural habitats (forests, fields, wetlands etc.) are included in this category.

**Quality of life or livability:** Aspects of the economic, social and physical environment that make a community a desirable place in which to live or do business. Quality of life factors include those such as climate and natural features, access to schools, housing, employment opportunities, medical facilities, cultural and recreational amenities, and public services.

**Rehabilitation:** The reconditioning of buildings to improve their structural integrity, energy efficiency, healthfulness, visual appeal, or other physical characteristics.

**Reverse mortgage:** A type of home loan in which the owner converts a portion of the equity of a home into cash. The equity built up over years of making mortgage payments is paid to the owner.

**Runoff:** Water that flows off the surface of the land, ultimately into streams and water bodies, without being absorbed into the soil.

**Smart growth:** Well-planned development that protects open space and farmland, revitalizes communities, keeps housing affordable and provides more transportation choices.

**Socioeconomic status (SES):** An economic and sociological combined total measure of a person's work experience and of an individual's or family's economic and social position in relation to others, based on income, education, and occupation.

**Sprawl:** Development patterns in which rural land is converted to urban/suburban uses more quickly than needed to house new residents and support new businesses, and people become more dependent on automobiles. Sprawl is characterized by low-density residential development, rigid separation between residential and commercial uses, residential and commercial development in rural areas away from urban centers, minimal support for non-motorized transportation methods, and a lack of integrated transportation and land use planning.

**Streetscape:** The space between the buildings on either side of a street that defines its character. The elements of a streetscape include building frontage/façade; landscaping (trees, yards, bushes, plantings, etc.); sidewalks; street paving; street furniture (benches, kiosks, trash receptacles, fountains, etc.); signs; awnings; and street lighting.

**Traditional neighborhood:** A development pattern that reflects historic settlement patterns and town planning concepts such as gridded, narrow streets, reduced front and side setbacks, and an orientation of streets and neighborhoods around a pedestrian oriented town center.

**Transit nodes:** Stops along a public transportation route where people board and disembark, often where one or more routes

intersect with each other. These sites can provide ideal locations for mixed-use development as well as transit-oriented development.

**Trust fund:** An arrangement whereby property is held by an individual, board, or public body for the benefit of others. Such arrangements are used to build, preserve, or rehabilitate housing, which is then offered at a lower cost to low-income households.

**Universal design:** The two major components of universal design include (1) designing products so that they are flexible enough that they can be directly used (without requiring any assistive technologies or modifications) by people with the widest range of abilities and circumstances as is commercially practical given current materials, technologies, and knowledge; and designing products so that they are compatible with the assistive technologies that might be used by those who cannot efficiently access and use the products directly. This term is often used to describe housing or public infrastructure designed to accommodate disabled people.

**USGS (United States Geological Survey):** A federal agency that provides mapping of topography, aquifer levels, and areas where aquifers are recharged.

**Urban Growth Area (UGA):** An area defined by land use policy within which urban development patterns and urban services are intended. Outside of this area, lower densities and agricultural preservation are expected.

**Watershed:** The geographic area that drains into a specific body of water. A watershed may contain several sub-watersheds.

**Zoning:** Classification of land in a community into different areas and districts. Zoning is a legislative process that regulates building dimensions, density, design, placement and use within each district.

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# Appendix B: Policy Comparison Tables

The following tables compare the goals and policy recommendations in Growing Healthier Report to the existing Clark County Comprehensive Growth Management Plan. The change is listed as "New" if we have not identified any targeted policies to achieve the stated goal; as "Enhanced" if there appear to be policies that support this direction but could have greater health benefits with modifications; as "Existing" if the needed policies are in place but their importance to public has not been recognized, and/or they have not been fully adopted or implemented. Abbreviations used in this document include CCCP for the Clark County Comprehensive Plan, and HE for the Health Element.

## Access to healthy food

| GH goal   | GH policies & strategies   | Comp Plan | Change | Notes |
|---|--|-----------|--------|-------|
| 1. Maximize access to healthy foods by recruiting and retaining healthy food retail | 1.1 Improve food access in residential areas farther than ½ mile from health food stores in the UGA  | None      | New    |       |
|   | 1.1.1 Identify and monitor areas lacking in healthy food availability (i.e., food deserts)<br>1.1.2 Re-zone land in densely populated food deserts that lack appropriate zoning to allow for healthy food retail<br>1.1.3 Provide incentives for healthy food retail in underserved areas<br>1.1.4 Work with rural retailers to ensure consistent access to high quality produce and connect them to local produce sources<br>1.1.5 Allow seasonal or temporary healthy food retail, such as Community-Supported Agriculture (CSA) deliveries or mobile produce vendors, especially in food deserts<br>1.1.6 Prohibit restrictive covenants (non-compete clauses) that preclude food stores from appropriately zoned land, especially those that keep new grocery stores from using vacant buildings |           |        |       |
|   | 1.2 Remove barriers to establishing and maintaining farmer's markets, CSAs, buying clubs, and farm-direct/other food deliveries, and mobile vending  | None      | New    |       |
|   | 1.2.1 Reduce parking standards for farmers' markets and produce stands   |           |        |       |
|   | 1.2.2 Recognize these businesses as part of the food economy and allow them as permitted uses in county and city codes   |           |        |       |

| GH goal   | GH policies & strategies  | Comp Plan           | Change | Notes |
|---|---|---------------------|--------|-------|
| 2. Increase the availability of healthy food options relative to unhealthy food options | 2.1 Encourage and promote healthy options at all food establishments  | None                | New    |       |
|   | 2.1:1 Incentivize and support schools, health care, restaurants, businesses, and other institutions that develop and adopt healthy food policies and increase proportion of healthy food choices<br>2.1:2 Require County agencies to develop and implement healthy food policies and local food procurement standards |                     |        |       |
|   | 2.2 Implement measures that discourage or prohibit dense concentrations of unhealthy food   | None                | New    |       |
|   | 2.2:1 Undertake periodic assessments of county regional food system   |                     |        |       |
|   | 2.2:2 Include assessment and planning for food access in sub area planning processes, and use zoning or design overlays to limit the density of unhealthy food  |                     |        |       |
|   | 2.2:3 Focus on decreasing unhealthy food sources in areas that already have a high concentration of these types of stores   |                     |        |       |
| 3. Protect resources that enhance community food security                               | 3:1 Implement measures to increase the consumption and/or sale of locally-produced food   | Framework           | New    |       |
|   | 3.1.1 Support and promote current farmers markets and development of new markets  | 3.1.3, 3.1.5        |        |       |
|   | 3.1.2 Work with farmers markets to develop a measure of healthy food distribution   | Policies:<br>7.2.10 |        |       |
|   | 3.1.3 Require or incentivize community gardens or urban agriculture space to accompany new development through dedications, easements, or impact fees   |                     |        |       |
|   | 3.1.4 Establish a level-of-service standard for community gardens   |                     |        |       |

| GH goal | GH policies & strategies  | Comp Plan  | Change   | Notes  |
|---------|---|--|----------|--|
|         | <p>3.2 Develop policies to protect and preserve urban and rural agriculture and to process and distribute local products</p> <p>3.2.1 Implement policies and strategies outlined in Comprehensive Plan encouraging conservation of the county's designated agricultural lands and support for the widest variety of agricultural crops and products</p> <p>3.2.2 Integrate food system elements into all planning efforts, including land use and economic development</p> <p>3.2.3 Create a land use category for urban agriculture, distinguishing it from rural agriculture as smaller, temporary, less intensive, and of short-term commercial significance or critical importance to community food security. Allow this use within the UGA</p> <p>3.2.4 In addition to long-term commercial significance, consider community food security in all land use decisions relating to agricultural land</p> <p>3.2.5 Define community gardens and/or urban agricultural areas as an urban service to be concentrate in UGAs</p> <p>3.2.6 Add or modify Comprehensive Plan goals to include community food security</p> | <p>Framework<br/>1.2.0, 3.1.3,<br/>3.1.6,<br/>Policies:<br/>1.1.15,<br/>1.2.2; 3.4.1</p> | Enhanced | <p>Current Comp Plan policies protect rural agricultural land, but do not accommodate urban agricultural uses. The <i>Growing Healthier</i> recommendations introduce community food security as a land use concept.</p> |
|         | <p>3.3 Ensure that food infrastructure accompanies population growth by assessing and planning for food production, processing, wholesale, retail, and waste management activities</p> <p>3.3.1 Consider strategies such as enterprise zones, tax incentives, financing initiatives, technical support, and regulatory streamlining</p> <p>3.3.2 Assess government owned land suitable for cultivation and support opportunities for food production activities on these sites</p> <p>3.3.3 Allow greater flexibility to farmers regarding development standards and commercial uses on farmland to support direct marketing of local agricultural products</p>   | None   | New      |  |

| GH goal   | GH policies & strategies   | Comp Plan | Change | Notes |
|---|--|-----------|--------|-------|
| 4. Increase access to healthy food and reduce disparities in food access. | <p>4.1 Target healthy food initiatives for populations at highest risk for development or exacerbation of chronic disease (youth, low income, minorities, and elderly)</p> <p>4.1.1 Increase healthy food access in low income neighborhoods through development of new farmers markets that include a plan to accept Electronic Benefit Transfer-Snap benefits</p> <p>4.1.2 Develop mechanisms for limiting the density of fast food restaurants and convenience stores and for encouraging healthy food retail near schools</p> <p>4.1.3 Encourage healthy foods in facilities serving children and aging adults</p> <p>4.1.4 Encourage mixed-use neighborhood design that allows for healthy food retail in proximity to residential areas</p> <p>4.1.5 Prioritize transit that serves healthy food sources</p> <p>4.1.6 Support farm-to-school and farm-to-institution programs.</p> | None      | New    |       |

### Active transportation and land use

| GH goal  | GH policies & strategies   | Comp Plan                            | Change | Notes   |
|--|--|--------------------------------------|--------|---|
| 1. Maximize the use of healthy and sustainable transportation modes through transportation and land use policy | <p>1.1 Adopt a healthy and sustainable transportation hierarchy policy that favors transportation modes in the following order: pedestrian, bicycle, transit, carpool &amp; freight, single occupant vehicle</p> <p>1.1.1 Adopt a complete streets ordinance recognizing differences between urban and rural transportation needs</p> <p>1.1.2 Adopt a multi-modal level of service and require all construction in the UGA to meet level of service standards for bicycle and pedestrian traffic.</p> <p>1.1.3 Adopt an active transportation checklist for use during development review</p> | Policies: 5.0.1, 5.0.5, 5.2.1, 5.2.6 | New    | Framework Goal: 5.0 The Community Framework Plan envisions a shift in emphasis of transportation systems from private vehicles to public transit (including high-capacity transit,) and non-polluting alternatives such as walking and bicycling. |

| GH goal   | GH policies & strategies   | Comp Plan  | Change   | Notes   |
|---|--|--|----------|---|
|   | 1.2 Manage travel demand to minimize automobile travel<br>1.2.1 Adopt parking maximums and waive parking minimums for some uses<br>1.2.2 Manage parking demand through pricing   | Framework:<br>5.1.4, 5.1.5<br>Policies:<br>5.0.6, 5.3.4  | Enhanced | CCCP policy is to fulfill state & federal laws regarding peak SOV travel. This means minimizing auto travel.                  |
|   | 1.3 Fund active transportation projects<br>1.3.1 Aggressively pursue new funding sources for active transportation infrastructure<br>1.3.2 Reallocate existing transportation funding to emphasize active transportation   | Policies:<br>5.6.4   | Enhanced | CCCP policy is to be consistent with state law. This applies higher standard of active transportation infrastructure          |
| 2. Build neighborhoods that support active transportation | 2.1 Ensure that land use supports active transportation<br>2.1.1 Increase residential and employment densities in the UGA<br>2.1.2 Increase residential minimums<br>2.1.3 Require mixed uses<br>2.1.4 Incentivize transit-oriented development<br>2.1.5 Adopt an infill development ordinance<br>2.1.6 Identify opportunities to introduce neighborhood commercial uses and re-zone properties to allow them in areas dominated by residential use | Framework<br>5.06,<br>5.10.10,<br>5.1.3, 5.1.5<br>Policies:<br>1.2.1,<br>1.3.2, 1.4.2,<br>1.4.6, 1.4.9 | Enhanced | Current framework and comp plan policy "encourages". Land use policies suggest this but offer few specific policy actions.    |
|   | 2.2 Build active transportation infrastructure in the UGA<br>2.2.1 Increase bikeway network density<br>2.2.2 Increase sidewalk connectivity and safe crossings by expanding the sidewalk infill program<br>2.2.3 Integrate walking and bicycling infrastructure with transit<br>2.2.4 Improve and expand transit service frequency, reliability, affordability, usability, and efficiency  | Framework<br>5.1.2   | New      | CCCP focuses on new development or re-built roads. Retrofitting for active transportation is in strategies, but not policies. |
|   | 2.3 Design streets and buildings to encourage active transportation<br>2.3.1 Implement design overlays that require human-scale construction, with street-level windows and entrances oriented to the sidewalk<br>2.3.2 Expand the use of form-based code  | Framework:<br>5.1.2, 10.1.5<br>Policies:<br>1.4.2, 1.4.6,<br>1.4.9                                     | Enhanced | With the exception of access management (driveway placement), current policy does not address street design.                  |

| GH goal  | GH policies & strategies  | Comp Plan          | Change   | Notes  |
|--|---|--------------------|----------|--|
|  | 2.3.3 Develop street designs that allow for a variety of uses in the right-of-way, including active transportation and social uses                  | Framework: 5:1     | Enhanced | Policy currently states that the local street network should be connected to minimize the use of arterials, and "discourages" cul-de-sacs. |
|  | 2.3.4 Implement innovative new street designs, such as the National Association of City Transportation Officials (NACTO) Urban Bikeway Design Guide | Policies: 5:3.5    |          |  |
|  | 2.4 Increase network connectivity in the UGA  |                    |          |  |
|  | 2.4.1 Establish maximum block sizes and/or minimum connectivity standards in the UGA  |                    |          |  |
|  | 2.4.2 Prohibit future construction of cul-de-sacs   |                    |          |  |
|  | 2.4.3 Build connections in existing disconnected street networks, such as between cul-de-sacs   |                    |          |  |
| 3. Enhance the safety and comfort of active transportation | 3:1 Set a target of zero traffic fatalities   | Policies: Goal 5:5 | New      | Current comp plan includes a goal for safety, but does not set a target or make it a priority.   |
|  | 3:1.1 Make safety the top priority in all roadway design  |                    |          |  |
|  | 3:1.2 Develop and implement low-speed street designs such as neighborhood greenways   |                    |          |  |
|  | 3:1.3 Implement traffic calming on neighborhood streets   |                    |          |  |
|  | 3.2 Make cycling, walking, and transit more user-friendly   | Policies: 5.0:1    | New      | Current policy "accommodates" active transportation, but does not emphasize it or include measures to make it more attractive.             |
|  | 3.2.1 For cycling and walking, maximize separation from auto traffic when vehicle speeds are greater than 20 mph                                    |                    |          |  |
|  | 3.2.2 Improve and expand wayfinding signage   |                    |          |  |
|  | 3.2.3 Increase proportion of C-Tran stops with rider amenities  |                    |          |  |
|  | 3.2.4 Identify deficiencies in street lighting and develop an improvement plan  |                    |          |  |
| 4. Ensure equal access to active transportation options    | 4.1. Provide active transportation options as equitably as possible with regard to race, ethnicity, income, age, and neighborhood                   | None               | New      | Current policies do not address equity.  |
|  | 4.1.1 Prioritize bicycling, walking, and transit facilities in neighborhoods with low SES or high minority populations                              |                    |          |  |
|  | 4.1.2 Implement a ciclovía or Sunday parkways program for Clark County  |                    |          |  |

| GH goal | GH policies & strategies   | Comp Plan | Change | Notes   |
|---------|--|-----------|--------|---|
|         | 4.2 Improve infrastructure and encouragement programs for youth<br>4.2.1 Site new schools in areas that are within 1 mile of most student's homes<br>4.2.2 Limit setbacks for new school construction to minimize walking distance<br>4.2.3 Partner with school district officials to expand and institutionalize Safe Routes to School Programs | None      | New    | Current policies do not focus efforts on youth. |

## Parks and open spaces

| GH goal                                | GH policies & strategies  | Comp Plan  | Change   | Notes   |
|--|---|--|----------|---|
| 1. Increase physical activity in parks | 1.1 Maintain and enhance existing parks and recreation facilities and services<br>1.1.1 Develop and regularly update asset management plans to promote efficiency and stewardship system-wide   | GMA: Goal 9<br>Framework<br>7.1.0<br>Policies:<br>7.0.1, 7.1.9                     | Existing | Efficiency of park maintenance takes on new significance given budget issues, but is essential to keeping them attractive to residents. |
|  | 1.2 Establish and meet park maintenance standards<br>1.2.1 Establish maintenance unit costs and annually review these for budgeting purposes  | None   | New      | Establishing maintenance standards will facilitate budgeting.   |
|  | 1.3 Increase access to parks, recreation and open space<br>1.3.1 Expand and tailor recreation programs and services to meet community needs<br>1.3.2 Evaluate transportation barriers affecting the ability of existing parks to serve residents<br>1.3.3 Improve bicycle and pedestrian connections to parks<br>1.3.4 Expand parks by converting vacant spaces in built-up communities into mini parks<br>1.3.5 Implement the parkland development standards<br>1.3.6 Fill in service gaps using the parks acquisition program | GMA: Goal 9<br>Framework<br>7.1.0<br>Policies:<br>7.1.1,<br>7.1.5,<br>7.2.1, 7.2.2 | Enhanced | CCCP mentions transit access to parks but not bike/pedestrian   |

| GH goal  | GH policies & strategies   | Comp Plan                                  | Change   | Notes  |
|--|--|--|----------|--|
|  | 1.4 Establish and enhance joint use of facility agreements   | Policies:<br>7.2.1                         | Existing | Resource in difficult financial times  |
|  | 1.5 Include public space as a requirement for new building development plans in densely developed areas  | None                                       | New      |  |
|  | 1.6 Build multi-use community facilities with adaptable programming space  | None                                       | New      | Facilities in dense areas, serve similar role as parks, with high use of community facilities. |
|  | 1.7 Develop a network of trails and bikeways throughout the county that connect destinations<br>1.7.1 Implement the Clark County Bicycle and Pedestrian Plan<br>1.7.2 Implement the Clark County Regional Trail & Bikeway Systems Plan<br>1.7.3 Update the Clark County Bicycle and Pedestrian Plan and the Regional Trail and Bikeway Systems Plan within 5 years | Framework:<br>7.1.5<br>Policies:<br>7.4.1  | Existing | Implement per prioritization   |
| 2. Ensure long-term access to parks and open space | 2.1 Ensure adequate funding<br>2.1.1 Implement Vancouver-Clark Comprehensive Parks, Recreation, and Open Space Plan  | Policies:<br>7.0.1                         | Enhanced | Per Blue Ribbon Committee findings and recommendations.  |
|  | 2.2 Exercise fiscal responsibility in all acquisitions and expenditures  | Policies:<br>7.2.15,<br>7.2.16             | Existing | Allows for LOS monitoring and refinement.  |
|  | 2.3 Support volunteers<br>2.3.1 Adopt-A-Trail<br>2.3.2 Adopt-A-Greenway  |  |          |  |
|  | 2.4 Monitor park use by conducting user surveys every 4-5 years  | Framework:<br>7.1.4<br>Policies:<br>7.1.10 | New      |  |

| GH goal           | GH policies & strategies   | Comp Plan                | Change   | Notes   |
|-------------------|--|--------------------------|----------|---|
|                   | 2.5 Consider consolidating parks operations  |                          | New      | Current policy allows flexibility in operations, but does not specifically call for consolidation.                                      |
| 3. Improve equity | <p>3.1 Improve and maintain equity of parks access in Clark County</p> <p>3.1.1 Support parks, trails, recreation facilities and programs in disadvantaged neighborhoods</p> <p>3.1.2 Distribute parks and open spaces equitably throughout the UGA by allocating needed parkland to underserved areas, including areas of high projected growth</p> <p>3.1.3 Provide parks in areas with high need and low service</p>  | Policies: 7.1.5, 7.2.1   | New      | All of these areas are addressed in the VPRCD plan but not directly in the CCCCP.   |
|                   | <p>3.2 Work with partners to provide recreation opportunities for residents of all ages, abilities and economic and cultural backgrounds</p> <p>3.2.1 Create recreational programs as a lower-cost, highly-targeted approach to prevent obesity within communities at highest risk</p> <p>3.2.2 Provide recreational facilities and services needed by various population groups, such as specific age groups or people with special physical requirements.</p> <p>3.2.3 Introduce free and low-cost recreational programming where fees might otherwise limit participation</p> |                          | New      |   |
|                   | 3.3 Involve diverse community members in parks and recreation planning   |                          | Existing |   |
| 4. Ensure safety  | <p>4.1 Improve park safety</p> <p>4.1.2 Organize programs and work with partners to provide natural surveillance around parks and open space</p> <p>4.1.3 Track crime and perceptions of safety in and around parks</p>  | Policies: 7.2.15, 7.2.16 | Enhanced | Current policy treats "user safety" broadly without specifically calling out crime or vandalism.  |
|                   | 4.2 Apply park and facility design that discourages vandalism and deters crime   | Policies: 7.2.15, 7.2.16 | Enhanced | Current policy treats "user safety" broadly without specifically calling out crime or vandalism. Does not address through design/CPTED. |

## Economic opportunity

| GH goal  | GH policies & strategies  | Comp Plan   | Change   | Notes   |
|--|---|---|----------|---|
| 1. Create a thriving local economy   | 1.1 Fully implement the economic development policies in the 2011 Clark County Economic Development Plan  | Policies: 9.0                                     | Existing | The Comp Plan does not fully reflect the goals and strategies of the County Economic Development Plan.  |
|  | 1.2 Prioritize preservation of farmland to support an agricultural processing industry  | Framework: 3.1.3<br>Policies: 3.1.1               | Existing | This policy exists in the economic development plan, but is not reflected in the comprehensive plan.  |
|  | 1.3 Foster increased density of human capital and innovation<br>1.3.1 Create dense employment districts   | None  | New      | Density of human capital is the key concept in this policy. Evidence shows that productivity and growth increase as does density of educated, talented workers. |
| 2. Address persistent health inequities experienced by low income and minority populations | 2.1 Mitigate the health impacts of poverty by creating opportunities for those in poverty at all stages of life<br>2.1.1 Ensure that all children have a healthy and safe start to life<br>2.1.2 Increase the number of children entering school prepared and ready to learn<br>2.1.3 Mobilize community resources to support at-risk youth | None  | New      |   |
|  | 2.2 Emphasize strategies from the 2011 Clark County Economic Development Plan that increase local hiring and promote diversity in the workforce   | Framework: 9.1.3<br>Policies: 9.1.9               | Existing | The Comp Plan does not fully reflect the goals and strategies of the CCED Plan.   |
|  | 2.3 Increase income equality by recruiting businesses that provide living wage jobs<br>2.3.1 Expand living wage agreements and enhance accountability   | Framework: 9.1.3<br>Policies: 9.1.6, 9.2.4, 9.6.1 | Existing |   |

| GH goal   | GH policies & strategies   | Comp Plan   | Change   | Notes   |
|---|--|---|----------|---|
| 3. Prepare current County residents to participate in and benefit from new economic initiatives | 3.1 Ready the local workforce to maximize economic opportunities   | Policies:<br>9:1.5, 9.5:1                             | Modified | Current language "encourages higher education levels among residents."              |
|   | 3.2 Partner with educational institutions to provide students with the support needed for educational success across all grade levels  | Policies:<br>10.6.1,<br>10.6.2                        | New      |   |
|   | 3.3 Work with educational institutions, foundations and businesses to connect educational achievement to emerging employment opportunities   |   | New      |   |
| 4. Provide an environment that attracts highly skilled workers                                  | 4.1 Match population growth and development patterns to economic development goals by advancing community characteristics that appeal to a young, skilled, educated workforce and the industries that would employ them  | Framework:<br>9:1:2, 9:1.5<br>Policies:<br>9:1:6      | Enhanced | Re-orient policies to attract employers and talent. More consistent with CCED Plan. |
|   | 4.2 Direct new development toward smaller, more affordable housing units in high-density settings with many transportation options   | Framework:<br>10.1.4,<br>10.1.5<br>Policies:<br>9.4:2 | Enhanced | Establishes economic opportunity as a new purpose for accomplishing this.           |
|   | 4.3 Preserve and enhance natural and cultural resources  | Framework:<br>4:1:0<br>Policies:<br>3:1.1, 4.1.1      | Enhanced | Establishes economic opportunity as a new purpose for accomplishing this.           |
|   | 4.4 Build quality places   | Framework:<br>9:1.4<br>Policies:<br>9:4.6             | Enhanced | Establishes economic opportunity as a new purpose for accomplishing this:           |
|   | 4.4.1 Create iconic, identifiable places through design<br>4.4.2 Reconnect the city with the waterfront<br>4.4.3 In mixed use districts, include entertainment such as restaurants, theaters, and concert venues<br>4.4.4 Include mixed uses in or proximate to neighborhoods in order to promote access to and customer support of local small businesses |   |          |   |

| GH goal | GH policies & strategies  | Comp Plan            | Change   | Notes   |
|---------|---|----------------------|----------|---|
|         | 4.5 Retrofit neighborhoods and employment centers in the UGA with economically and environmentally sustainable infrastructure<br>4.5.1 Prioritize infrastructure investments that increase non-automobile travel<br>4.5.2 Prioritize infrastructure that supports local business, industrial, and commercial uses | Framework:<br>10.1.4 | Enhanced | Retrofitting is mentioned in comp plan strategies but not policies. |

## Affordable, quality housing

| GH goal  | GH policies & strategies  | Comp Plan   | Change   | Notes  |
|--|---|---|----------|--|
| 1. Fully implement the health-promoting policies in the existing Housing Element | 1.1 Prioritize implementation of existing policies that increase housing affordability, supply, and choice in compact, walkable neighborhoods   | Framework:<br>2.1.0; 2.1.2<br>Policies:<br>2.2.8        | Enhanced | Consistent with CCCP goal of increasing affordability, diversity and supply of housing   |
|  | 1.2 Prioritize implementation of existing policies that emphasize compact, walkable neighborhoods   | None  | New      | HE adds value of locating in compact neighborhoods. Also points to demographic shifts and health implications so adds urgency to the speed of implementation.              |
| 2. Increase the proportion of housing in complete, walkable neighborhoods        | 2.1 Increase the percent of housing units within walkable distance of mixed-use development<br>2.1.1 Identify opportunities in existing neighborhoods for zoning changes to allow small retail and service uses<br>2.1.2 Use zoning and development incentives to direct new housing units toward areas with active transportation infrastructure, including bikeways, sidewalks, and transit service<br>2.1.3 Require multifamily residential developments to connect to adjacent services and transportation infrastructure | Framework:<br>2.1.0, 2.1.5<br>Policies:<br>2.1.6; 2.3.2 | Enhanced | Comp plan addresses neighborhood walkability to some extent, but HE organizes into a vision of what a healthy neighborhood is and prioritizes as way to manage new growth. |

| GH goal  | GH policies & strategies   | Comp Plan                            | Change   | Notes  |
|--|--|--------------------------------------|----------|--|
| 3. Improve housing affordability by ensuring a county-wide increase in housing choice and supply | 3. Meet the housing demands of emerging demographic groups.  | Framework: 2:1.1, 2.1.4-2:1.7        | Enhanced | CCCP supports diversity of housing types and transit access. These are so central to a healthy community that GH recommends new development be directed toward high density, transit oriented housing in UGAs. Also creates conditions for less car dependent, more transit oriented design.                               |
|  | 3.1.1 Plan for increases in the millennial and baby boomer populations and their preferences, such as small household sizes and decreased automobile travel  | Policies: 2.1.0, 2.2.4, 2.5.1, 2.7.1 |          |  |
|  | 3.1.2 Change zoning to allow more areas to support diverse housing types, including small-lot single family, multifamily, duplexes, Accessory Dwelling Units, cottages, and co-housing             |                                      |          |  |
|  | 3.1.3 Reduce residential parking minimums.<br>3.1.4 Revise codes and implement programs to increase the number of housing units meeting universal design criteria                                  |                                      |          |  |
|  | 3.2 Work with cities to attain compliance with fair share housing goals  |                                      |          |  |
|  | 3.2.1 Increase residential densities   |                                      |          |  |
| 4. Ensure equitable access to quality, affordable housing  | 4.1 Increase the number of housing units that meet universal design criteria   | None                                 | New      | Universal design goals need to be added to current plan, as does a clear definition of healthy housing and recognition of the health impacts of homelessness that must be addressed. The GH recommendation for mixed income development recognizes diversity while preventing the growth of areas of concentrated poverty. |
|  | 4.1.1 Inventory and track the amount and location of universal design housing  |                                      |          |  |
|  | 4.1.2 Revise codes and implement programs to promote universal design  |                                      |          |  |
|  | 4.2 Ensure that housing does not pose health risks to vulnerable populations   | Policies: 2.4.2, 2.4.6               | New      |  |
|  | 4.2.1 Partner with Community Development Block Grant and Home programs to ensure health risks are addressed when rehabilitating housing<br>4.2.2 Develop and implement a healthy housing checklist |                                      |          |  |
|  | 4.3 Adopt and implement the updated Clark County 10-year Homelessness Plan   |                                      | New      |  |
|  | 4.4 Integrate market rate and affordable housing   |                                      | New      |  |

| GH goal  | GH policies & strategies  | Comp Plan                                  | Change   | Notes   |
|--|---|--|----------|---|
| 5. Partner with stakeholders and organizations to exchange resources and educate the public on housing issues and generate healthy housing regulations | 5.1 Work with financial institutions, developers non-profits, public agencies, and other partners to rehabilitate and construct affordable housing  | Framework: 2.1.0<br>Policies: 2.6.1, 2.6.2 | Enhanced | Stimulate development of quality and attractive affordable housing (SROs have narrow appeal).         |
|  | 5.1.1 Explore innovative funding sources such as reverse mortgages, loan pools, and housing trust funds<br>5.1.2 Relieve the permitting burden for affordable housing through fee waivers |  |          |   |
|  | 5.2 Educate community partners about universal design, demographic shifts, and health impacts of unaffordable housing   | None                                       | New      | Understanding health impacts and demographic shifts is necessary for developer and community support. |

### Climate change and human health

| GH goal   | GH policies & strategies   | Comp Plan | Change | Notes  |
|---|--|-----------|--------|--|
| 1. Determine how Clark County can adapt to and mitigate climate change in order to protect health | 1.1 Convene a countywide Climate Action Committee led by a full-time County staff person dedicated to this content area, with participation by high level officials from C-Tran, public utilities, waste management, economic development/business, Port of Vancouver, CRESA, Public Health, municipalities, other affected departments and sectors and the public at large.<br>1.1.1 Identify local vulnerabilities that will put the population's health at risk as the climate continues to warm<br>1.1.2 Update and maintain a GHG inventory by sector and identify how to achieve the greatest reduction for the least cost<br>1.1.3 Communicate climate risks to public and provide education on the need for adaptation and mitigation strategies and how they can participate in both. | None      | New    | The Comp Plan expresses a commitment toward sustainability, but has not made a systematic plan to reduce local greenhouse gas emissions, assessed or developed strategies to address climate change threats to health and resources. |

| GH goal                                     | GH policies & strategies  | Comp Plan           | Change | Notes   |
|---|---|---------------------|--------|---|
| 2. Develop plans to mitigate climate change | 2.1 Develop plans to decrease carbon emissions <ul style="list-style-type: none"> <li>2.1.1 Promote active transportation through improving the bike/pedestrian environment (complete streets), compact development areas, additional miles of bicycle boulevards and sidewalks</li> <li>2.1.2 Promote vehicle efficiency through electric car charging stations and cleaner fleets, buses, and delivery vehicles</li> <li>2.1.3 Encourage more local food production, processing, and distribution to reduce freight emissions</li> <li>2.1.4 Retrofit existing buildings for energy efficiency</li> <li>2.1.5 Implement aggressive energy efficiency codes for new construction</li> <li>2.1.6 Increase telecommuting.</li> </ul> | Framework:<br>5.1.4 | New    | Threats to air quality, sustainability and health will be lessened if we can decrease the amount of Greenhouse Gasses released to the atmosphere. |
|   | 2.2 Develop plans to absorb carbon dioxide <ul style="list-style-type: none"> <li>2.2.1 Preserve and plant trees</li> <li>2.2.3 Encourage use of native plants</li> <li>2.2.4 Restore and expand urban and rural forest</li> </ul>  |                     |        |   |
| 3. Conserve and preserve resources          | 3.1 Maximize the percentage of energy used that comes from renewable resources <ul style="list-style-type: none"> <li>3.1.1 Support on-site and district energy (heating, cooling and hot water) for buildings clusters</li> <li>3.1.2 Design buildings to reduce heat absorption</li> <li>3.1.3 Revise building codes and design guidelines to allow for and encourage passive solar design, green roofs, active solar and other renewable energy</li> </ul>   | None                | New    | Clark County is at risk for loss of resources needed to maintain a local food source (agricultural land and water)                                |
|   | 3.2 Conserve finite resources <ul style="list-style-type: none"> <li>3.2.1 Reduce water use and increase efficiency through retrofitting incentives, educating and mandating conservation measures</li> <li>3.2.2 Restore and retain all existing farmlands to assist with local food production</li> <li>3.2.3 By ordinance, planning support and/or incentives, restore and retain farms and protect agricultural lands from development</li> </ul>   | None                | New    |   |

| GH goal  | GH policies & strategies   | Comp Plan | Change | Notes   |
|--|--|-----------|--------|---|
|  | 3.3 Decrease per-capita energy consumption<br>3.3.1 Incentivize energy efficiency retrofits for existing buildings   |           |        |   |
| 4. Prepare for climate change impacts by developing adaptation plans | 4.1 Protect public health from climate change impacts<br>4.1.1 Decrease impervious surfaces that increase temperatures and generate water runoff<br>4.1.2 Identify areas at high risk for flooding, fire, and extreme temperatures and take preventive action to address the threat (e.g. expand flood plain boundaries)<br>4.1.3 Review and modify emergency response plans to anticipate and prepare for impacts of climate change, including extreme heat, flooding, contagion, and deteriorating air quality | None      | New    | Public Health threats include risks from extreme heat events, flooding, fires, landslides, diseases from new vectors, and deterioration of air quality. |

| Environmental quality   |   |   |          |  |
|---|---|---|----------|--|
| GH goal   | GH policies & strategies  | Comp Plan   | Change   | Notes  |
| 1. Protect residents from exposure to direct, indirect and cumulative impacts of outdoor air pollutants | 1.1 Reduce toxic emissions from automobiles<br>1.1.1 Reduce dependence on automobiles by land use policies that promote compact and transit-oriented development, jobs/housing balance, walking and bicycling infrastructure, and traffic patterns that reduce congestion and idling time<br>1.1.2 Encourage and support low emission and energy-efficient vehicles through actions such as providing sulfur free diesel or establishing network of electric vehicle charging stations<br>1.1.3 Expand tree cover near freeways and other highly motorized routes.<br>1.2 Reduce toxic emissions from freight and equipment<br>1.2.1 Collaborate with the Port, industry, and regulatory agencies to develop a comprehensive emissions reduction plan for freight-related emissions<br>1.2.2 Explore use of low-emission vehicles, short-sea shipping service to reduce truck and rail impacts, and electric plug-ins for docked ships so they don't have to burn fuel for power. | GMA: Goal Framework: 4.1.1 Policies: 4.1.1, 4.9.1-4.9.2 | Modified | More specific about sources of outdoor air pollution and strategies to protect human health. |

| GH goal  | GH policies & strategies   | Comp Plan | Change | Notes |
|--|--|-----------|--------|-------|
|  | 1.3 Reduce toxic emissions from stationary sources<br>1.3.1 Assess and develop strategies to reduce air pollution from stationary source emitters such as industries, power plants and commercial and residential buildings.<br>1.3.2 Provide health messaging to ensure general public is aware of the risks of common toxins and have information to help prevent these risks  |           |        |       |
| 2. Protect residents from exposure to indoor air pollutants  | 2.1 Reduce indoor air pollutants<br>2.1.1 Develop and adopt guidelines for indoor air quality in residential and commercial units along high traffic corridors, and implement through code revisions<br>2.1.3 Expand programs to reduce exposure to harmful effects of second-hand smoke in indoor and outdoor areas<br>2.1.4 Ensure that new construction, remodeling and renovation projects include assessment and mitigation of risk of exposure to radon<br>2.1.5 Monitor radon levels and mold by compiling residential test results<br>2.1.6 Work with home rehabilitation programs and Clark County Community Development to ensure radon testing and mitigation are in place new and improved buildings | None      | New    |       |
| 3. Prioritize environmental justice by directing mitigation to areas with low-income, minority, youth, and aging populations | 3.1 Direct mitigation efforts to those most at risk of exposures to pollutants or most sensitive to impacts<br>3.1.1 Develop emissions mitigation plans for areas around schools, childcare centers, parks and playgrounds, hospitals, elder housing, and community gathering places<br>3.1.2 Collaborate with the port, freight operators, local businesses and regional and state transportation agencies to develop new routes that divert diesel emitting vehicles from sensitive areas while ensuring efficient movement through the Port and industrial areas<br>3.1.3 Continue to pursue smoke-free policies for housing, work places, and public places  | New       | None   |       |

| GH goal   | GH policies & strategies  | Comp Plan                           | Change   | Notes  |
|---|---|-------------------------------------|----------|--|
|   | 3.2 Protect at-risk populations by siting future facilities they will use (e.g. schools, hospitals, residences, elder and childcare facilities) away from traffic and polluting industrial sites; and mitigate impacts to existing sites. |                                     |          |  |
|   | 3.2.1 Implement anti-idling requirements for school buses and other heavy-duty vehicle operators  |                                     |          |  |
|   | 3.2.2 Manage travel demand around sites with vulnerable populations to minimize automobile travel   |                                     |          |  |
|   | 3.2.3 Promote non-polluting energy sources around sites with vulnerable populations   |                                     |          |  |
| 4. Provide equitable access (private and public) to high quality drinking water with sustainable long-term availability | 4.1 Protect the public from drinking water contamination  | Framework                           | Modified | Need for run-off protection explicitly focuses on protection of DW. Adds monitoring of DW. |
|   | 4.1.1 Protect surface water quality by working with public and private property owners to reduce contaminated storm water runoff  | 4.1.1-4.1.3;<br>4.1.5.              |          |  |
|   | 4.1.2 Work with property/business owners to reduce soil and water contamination from industrial operations and other activities that use, produce or dispose of hazardous or toxic substances   | Policies,<br>4.1.1-4.1.2,<br>4.2.8, |          |  |
|   | 4.1.3 Develop a Group B water system permit program that ensures small group public drinking water quality is monitored   | 4.5.1-4.5.3,<br>4.6.1-4.6.6         |          |  |
|   | 4.2 Protect residents on private wells from health risks due to water quality or quantity problems  |                                     |          |  |
|   | 4.2.1 Monitor water resources in the aquifer and promote aggressive conservation efforts  |                                     |          |  |
|   | 4.2.2 Increase uses of recycled (gray) water, including for landscaping and home irrigation   |                                     |          |  |
|   | 4.2.3 Require notice to title when any private well has tested positive for arsenic at levels above safe standards  |                                     |          |  |

## Safety and social connections

| GH goal  | GH policies & strategies  | Comp Plan   | Change   | Notes   |
|--|---|---|----------|---|
| 1. Increase opportunities for social interaction   | 1.1 Improve social cohesion by prioritizing public involvement in decision making   | Other: GMA  | Enhanced | GMA requires public involvement in planning, and Plan does through neighborhood associations and sub-area planning.   |
|  | 1.2 Create safe public spaces   | Framework:  | New      | CCCP supports mixed use, transit infrastructure, gathering places. This policy states characteristics and planning process needed to create viable safe spaces. |
|  | 1.2.1 Work with residents to identify or create one safe public space in every neighborhood   | 1.1.1, 9.1.0, 9.1.2, 9.1.4, 9.1.5, 10.1.3, 10.1.5 |          |   |
|  | 1.2.2 Require that new development includes public space within a ten-minute walk   | Policies: 1.1.13, 10.1.2, 10.3.2, 10.3.3          |          |   |
|  | 1.2.3 Design public spaces to include access to transit stops, bicycle and pedestrian infrastructure, green space, commercial amenities, and weather protection |   |          |   |
| 1.2.4 Develop a process to accommodate citizen-led efforts to enhance public spaces, such as street paintings or other innovative uses |   |   |          |   |
|  | 1.3 Ensure opportunities for private development of gathering places near housing, such as cafes and small retailers  | Framework: 1.1.0, 10.1.2                          | Enhanced | Comp Plan does support mixed use; a few policies relate to common gathering places. This policy makes these a more intentional design feature.                  |
|  | 1.3.1 Identify opportunities to re-zone land to neighborhood commercial in areas dominated by a single use  | Policy: 9.1.2, 9.1.4, 9.4.2, 11.2.5               |          |   |
| 2. Ensure that safety is not a barrier to accessing health-supportive features of neighborhoods  | 2.1 Build neighborhoods that discourage crime   | None  | New      | Comp Plan has no policy regarding crime prevention. This policy recommends design standards to prevent crime in neighborhoods.                                  |
|  | 2.1.1 Collaborate with law enforcement to apply Crime Prevention Through Environmental Design (CPTED) principles to all new development projects                |   |          |   |
|  | 2.1.2 Increase natural surveillance by programming public spaces  |   |          |   |

| GH goal  | GH policies & strategies  | Comp Plan  | Change | Notes  |
|--|---|--|--------|--|
|  | 2.2 Increase real and perceived safety in existing neighborhoods  | None (except bicycle/pedestrian infrastructure addressed in transportation policies) | New    | Comp plan policies address planning for bike/ped safety but not focus neighborhood safety. This policy addresses factors that impact real and perceived safety in neighborhoods. |
|  | 2.2.1 Collaborate with law enforcement to organize neighborhood watch groups and community policing efforts   |  |        |  |
|  | 2.2.2 Increase the safety and comfort of pedestrian and bicycle facilities by increasing separation from fast moving vehicles, reducing crossing distances, and calming traffic |  |        |  |
|  | 2.2.3 Allow and encourage temporary uses of vacant or unused property, including community gardens, retail, and meeting space   |  |        |  |
|  | 2.2.4 Implement graffiti abatement and façade grant programs  |  |        |  |
|  | 2.2.5 Encourage and support property owners in maintaining and upgrading their property   |  |        |  |
|  | 2.3 Minimize neighborhood exposure to health impacts of alcohol and tobacco and other harmful drugs   | None   | New    | Comp plan does not address substance use policies or vendors. This policy does due to risks to residents of neighborhoods.   |
|  | 2.3.1 Establish buffers around schools and parks in which alcohol sales are prohibited  |  |        |  |
|  | 2.3.2 Establish maximum densities for alcohol retail outlets  |  |        |  |
|  | 2.3.3 Continue to pursue tobacco-free policies for housing, workplaces, and public places   |  |        |  |
| 3. Strive for neighborhoods that are economically and culturally diverse | 3.1 Ensure that all neighborhoods are communities of opportunity  | None   | New    | Comp Plan seeks to diversify housing types to ensure affordability, but does not address mixed income housing or neighborhoods.  |
|  | 3.1.1 Diversify housing to provide for a range of incomes within neighborhoods  |  |        |  |
|  | 3.1.2 Mix subsidized housing units with market-rate housing or unhealthy housing  |  |        |  |
|  | 3.2 Develop specialized sub-area plans for areas of high poverty  | None   | New    | Sub-area planning process is in Comp Plan.   |
|  | 3.2.1 Intensify affordable housing efforts in these areas   |  |        |  |
|  | 3.2.2 Identify housing that poses health risks and coordinate efforts to resolve inadequate or unhealthy housing  |  |        |  |

## Appendix C: Process, Outreach, and Survey Results

Culminating several years of learning about disparities, the built environment, and determinants of health, in 2010 the Public Health Advisory Council (PHAC) advised the Clark County Board of Health (BOH) to approve the initiation of work on a health element for the comprehensive plan. Later that year, the BOH responded by formally charging Clark County Public Health (CCPH) with completing this work, stipulating that it be done in partnership with the Community Planning Department and that the PHAC serve as the citizen advisory committee. For nearly 18 months, this group of approximately 20 professionals and consumers met monthly to identify priorities and contribute to the development of policy recommendations.

This work is in many ways a new area of practice for both Public Health and Community Planning. A 2011 survey by the American Planning Association found that just 27% of responding jurisdictions had comprehensive plans that explicitly address health, and identified only 23 examples of adopted comprehensive plans with stand-alone health elements. In this respect, each new health element is a model that contributes to a relatively small pool of examples. It is our hope that the process and products of this planning process will be instructive to other jurisdictions endeavoring to complete a health element for their own plans.

This appendix describes the planning process and outreach, and survey efforts associated with the Growing Healthier Report.

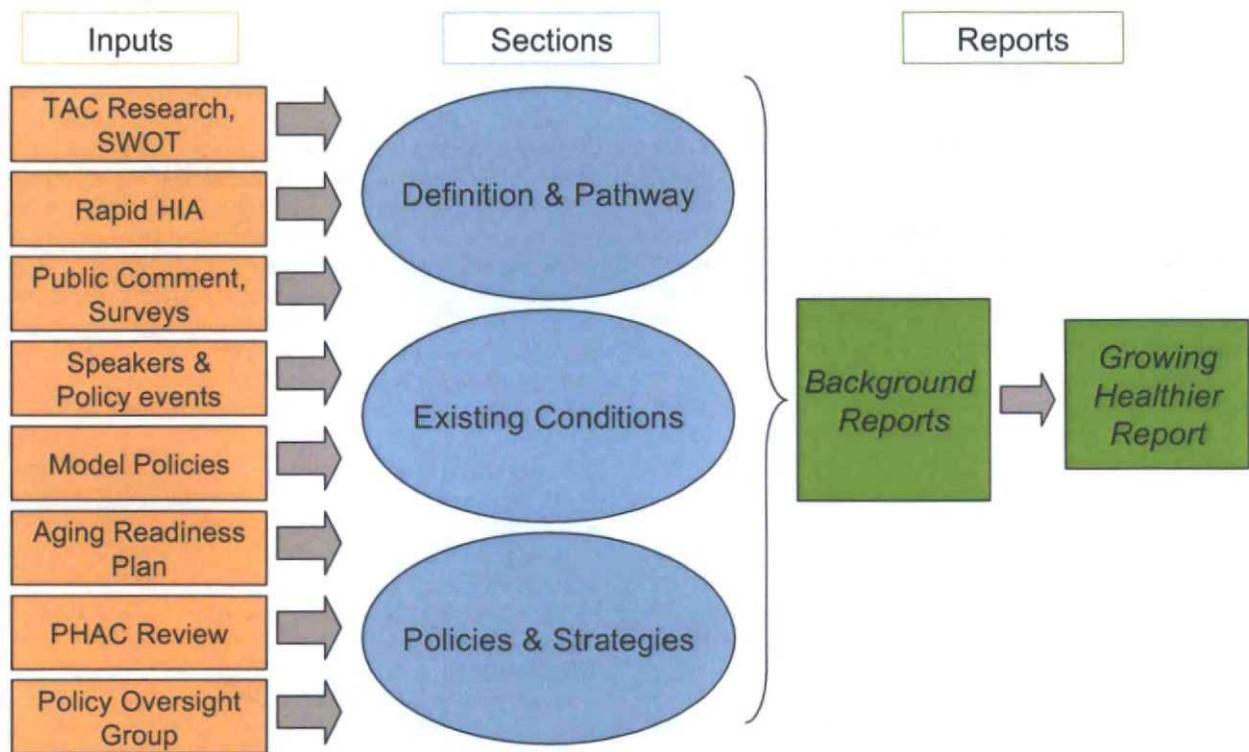
### Process

An internal advisory committee of six CCPH staff members began meeting in December of 2010 and conducted an analysis of the existing Comprehensive Plan. This work was supervised by the

agency's Healthy Communities Manager and carried out with the help of a team led by the Project Coordinator (an Urban Planner). Other committee members included two epidemiologists and the Chronic Disease Manager. Beginning in 2011, a policy oversight group comprised of staff and directors from Public Health and Community Planning began monthly coordination meetings, and staff began researching the environmental determinants of health. Public and policy maker outreach took place in late spring and summer to converse with the community about the project. The PHAC reviewed health and built environment data, gave input on topic areas to research, reviewed documents and received monthly progress updates, provided input, and helped communicate healthy planning concepts to community members and elected officials.

The eight background reports that serve as the basis for this report are each organized into two main sections: a literature review summarizing national research and best practices, and a current conditions report describing Clark County's built environment, other health determinants, and health outcome data (disparities were a particular focus). These reports were made available as technical background documents, and were summarized in *The Growing Healthier Report* and used to inform the development of policy recommendations. CCPH staff developed policy recommendations in consultation with PHAC members, local experts, and other stakeholders.

The graphic on the following page illustrates the inputs and products from the planning process. Other inputs included the findings from a Health Impact Assessment on the City of Vancouver Comprehensive Plan, and a 2011 Community Planning document called the Aging



Readiness Plan. The final product of this process is the *Growing Healthier Report*. The Board of County Commissioners is being asked to direct Community Planning to use the report to create a Health Element for the Clark County Comprehensive Growth Management Plan. While many policy recommendations from *Growing Healthier* enhance existing policies or introduce new aspects to traditional planning areas such as transportation and environment, some recommendations represent new areas of focus. Some of the Health Element planning topics not addressed in the current comprehensive plan include, for instance, access to healthy food and the impacts of climate change on human health.

## Outreach

Outreach efforts for *The Growing Healthier Report* included public meetings, media coverage, video segments on Clark-Vancouver TV, key stakeholder interviews and meetings, presentations to community groups, and online surveys. The kick-off for the planning process was a symposium for planners and policy makers in February 2011, at which guest speakers from the Walkable and Livable Communities Institute and the Victoria Transportation Policy Institute shared best practices in healthy community planning. This event was followed by two public open houses in April and in May, as well as an online community survey that was fielded between April and August of 2011 (described below).

In addition to these outreach efforts, CCPH staff incorporated input from events related to the Aging Readiness Taskforce, and solicited input from community groups. Among groups providing input into the process were the Neighborhood Association of Clark County, Urban Abundance, Clark County Food Systems Council, the Fourth Plain Revitalization Task Force, and Community Choices.

## Community Survey Results

The Growing Healthier Community Survey was designed to gather information on current conditions in Clark County. Included in the

survey were questions about neighborhood characteristics, and priorities for improvements. This input informed the policy recommendations presented in *The Growing Healthier Report*.

## Methods

The Growing Healthier survey was administered from April through August 2011. The survey was primarily administered electronically, with some paper forms available in select locations. The survey was sent electronically to various mailing lists, community groups, and employers, and was available on the Clark County Public Health (CCPH) website. In addition, it was promoted at community forums and the link was included in an April 27<sup>th</sup> article in *The Columbian*. Flyers and posters with the survey link were distributed at key locations (e.g., community centers and coffee shops) around the county. In mid-July, staff noted that there were few responses from low-income respondents and initiated additional outreach through CCPH programs and partnerships.

This was a convenience sample, meaning our survey respondents were those who received the electronic or paper form of the survey and decided to respond. We did not take a random sample of the population. The limitation to this approach is that our respondents are not a representative sample of Clark County residents.

## Respondents

There were 685 responses to the survey, with 627 (92%) completing the full survey. Comparing the demographics of those who responded to the county population is an indication of how well the respondents represent the county population. With regard to race, ethnicity, and income, the demographics of the survey population were similar to the general population (Table 1). Females and middle age groups were somewhat over-represented among respondents compared to the general population.

## Key Findings

- Most respondents (57%) said that there was not a variety of housing choices in their neighborhood.
- 58% of respondents said that healthy food was not available within ½ mile of their home.
- Only 59% of respondents said streets in their neighborhoods are safe for walking and cycling.
- Only 27% of respondents reported having a gathering place for social interaction in their neighborhood.
- 63% of respondents said they cannot get around their neighborhood without a car.

## Detailed Findings

### Affordable, Quality Housing

#### *Current Conditions*

- A majority of respondents reported that housing in their neighborhood is affordable.
- High income, suburban, and older respondents were more likely to report that housing in their neighborhood is affordable.
- The percent of respondents who reported living in a neighborhood with a variety of housing types decreased as income level decreased.
- The percent of respondents who reported living in a neighborhood with a variety of housing types was lowest among rural respondents, followed by suburban, and highest among urban respondents.
- The percent of respondents who reported living in a neighborhood with a variety of housing types was lowest among older respondents.
- Overall there is a relatively high percent (20%) of respondents reporting known problems with mold or other health problems in their neighborhoods.

- The largest percent of respondents who reported mold or other health problems in their neighborhoods were lower income, rural and older age groups.

#### *Actions to Improve Housing*

- A higher proportion of low-income respondents favor increasing subsidized housing compared with middle and high-income respondents.
- Subsidized housing is the least popular action to improve housing.
- There is substantial support for increasing the variety in housing types across all groups, especially among higher income respondents.
- There is broad overall support for reducing exposure to toxins.
- High-income respondents favor increased access to parks compared to the medium and low income groups.

### Access to Healthy Food

#### *Current Conditions*

- Higher income respondents reported healthy food was affordable.
- Overall, respondents reported limited physical access to healthy food within ½ mile.
- Overall, respondents reported limited access to community gardens.
- Overall, across all age, neighborhood and income groups, the majority of respondents support all designated improvements focused on improving access to healthy food.
- Rural respondents reported limited physical access to healthy food (½ mile) compared to urban respondents.
- Urban respondents reported better access to community gardens compared to suburban and rural respondents.
- Older respondents reported more limited physical access to healthy food (½ mile), affordable healthy food, farmers market, and community gardens.

#### Actions to Improve Access to Healthy Food

- Across income, neighborhood type and age groups, improving food affordability was selected most often as a priority.

#### Active Transportation and Land Use

##### Current Conditions

- Older respondents report lower access to transit.
- A lower percentage of low-income respondents feel safe walking during the day or night compared to other income groups.
- Overall, the percentage of respondents who report encouragement for students to walk or bike to school is low.
- About 60% of respondents reported neighborhood streets are safe for bicycles and pedestrians.
- Higher income respondents reported fewer destinations to walk to and less access to transit.
- About 50% of respondents report sidewalks on most streets in their neighborhood.
- Suburban respondents reported less access to destinations and transit and less sidewalks compared to urban respondents.
- Respondents aged ≥65 years reported less access to transit and less sidewalks on most streets compared to other age groups.

##### Actions to Improve Active Transportation and Land Use

- Sidewalks, crossings and safe biking routes were the most popular improvements.
- Middle income respondents report less street lighting and favor improved street lighting.
- Street maintenance and safe bike routes were less popular among low-income respondents.
- Actions to improve sidewalks and safe crossing were most popular among all neighborhood groups.

#### Safety and Social Connections

##### Current Conditions

- All income groups reported interacting with neighbors.
- Over half of all respondents in all income levels report ability to access natural areas.
- Overall, respondents reported having limited places to interact.
- % of low-income respondents reporting trust in others, ability to depend on neighbors and focus on looking out for one another was lower than other income groups.
- Overall, rural survey respondents reported less interaction with neighbors and places to interact.
- Overall rural survey respondents look out for each other, depend on each other and trust others more than urban and suburban.

##### Actions to Improve Safety and Social Connections

- All respondents by neighborhood description prioritized identifying strategies for neighborhood supports in emergencies as highest area for action.
- Overall across all neighborhood groups, survey respondents showed some support for actions to improve neighborhood safety.
- General overall support for actions to improve safety across all income levels included; focused on interactions with neighbors, parks and open space, creating more gathering spaces and neighbors supporting each other in emergencies.
- General overall support for police and policing programs was less prioritized across all income levels.
- Age group 20-44 had higher percentage of support for actions to create more opportunities to interact with neighbors, more parks and open space and more gathering places.

## Environmental Quality, Climate Change, and Sustainable Development

### *Current Conditions*

- Overall, few respondents reported the presence of energy efficient buildings.
- Higher income and rural respondents were more likely to report protected habitat nearby.
- A low percent of respondents reports having a neighborhood free of toxic contamination, especially low income, urban, and younger respondents.
- A fairly high percent of all groups report that protection of water resources is encouraged, but younger, low income, and urban respondents don't see as much encouragement.
- A low percent of respondents report that they can get around their community without a car.
- Younger, low-income, and urban respondents are more likely to say they can get around without a car, while older and rural respondents do not report this.
- High-income respondents were more likely to report that locally produced food is available nearby.
- Urban and rural respondents were more likely to report that locally produced food is available nearby.

### *Actions to Support Environmental Quality, Climate Change, and Sustainable Development*

- Making it easier to get around without a car is among the most popular actions across all groups.
- Cleaning up toxic sites is among the least popular proposals among all groups.
- Protecting water resources was more popular among older adults.
- Preparing for impacts of climate change was the least popular proposal.
- Climate Change mitigation is more popular than adaptation.
- Climate change mitigation is more popular among urban

respondents than suburban or rural.

- Increasing the availability of locally produced food is the most popular proposal across all groups, with support increasing with income.
- Younger respondents were more supportive of increasing availability of locally produced food.

**Schroader, Kathy**

---

**From:** Orjiako, Oliver  
**Sent:** Monday, August 31, 2015 10:27 AM  
**To:** Euler, Gordon; Alvarez, Jose  
**Cc:** Schroader, Kathy  
**Subject:** FW: Cities create Poor Health - For the Record

FYI.

**From:** Fred Pickering [<mailto:fredp@yacolt.com>]  
**Sent:** Sunday, August 30, 2015 11:02 PM  
**To:** Carol Levanen  
**Cc:** Madore, David; Stewart, Jeanne; Mielke, Tom; Orjiako, Oliver; McCauley, Mark  
**Subject:** Re: Cities create Poor Health - For the Record

Carol,

Who is writing this stuff? Karl Marx? and why?

Fred.....

On Sun, Aug 30, 2015 at 3:56 PM, Carol Levanen <[cnldental@yahoo.com](mailto:cnldental@yahoo.com)> wrote:  
Dear Councilors,

CCCU, Inc. is aware of a Clark County Health Department Open House for the Public on Monday, August 31, at 6:00 PM at the Vancouver Library, to push a staff agenda about "safe food". CCCU, Inc. has read the 64 page document intended for the Comprehensive Plan, authored in part by planner, Oliver Orjiako. Hidden in it's text, are proposals to create ordinances and public policy to lock up all rural and resource lands as they are today, and force people to re-combine their lands. In addition, there's a proposal to make even higher density housing and force people out of their cars. There is then a proposal to make people pay money, if they dare to drive a car and try to park it somewhere. The only mode of acceptable transportation will be transit, walking or riding a bike. This is the most creative deceit CCCU has seen thus far, in any document designed to force a high density, no growth agenda on the people of Clark County. It would seem that the Councilors should be well aware of what the Health Department Food Council is doing. First, an outrageous web page with shocking videos meant to frighten the public, now the meeting that will attempt to quantify those videos. Whoever authorized such staff activity should step down from whatever position they hold. The people of Clark County have had enough of the no growth and high density agenda. It doesn't work in this county and it will not be tolerated.. The attached information is only one of the confirmed studies indicating that high density is the reason for poor health, and not the solution.

Sincerely,

Carol Levanen, Ex. Secretary  
Clark County Citizens United, Inc.  
P.O. Box 2188  
Battle Ground, Washington 98604

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## Schroader, Kathy

---

**From:** Orjiako, Oliver  
**Sent:** Monday, August 31, 2015 8:33 AM  
**To:** Alvarez, Jose; Anderson, Colete; Kamp, Jacqueline; Euler, Gordon  
**Cc:** Schroader, Kathy  
**Subject:** FW: Cities create Poor Health - For the Record

For the record!

---

**From:** Carol Levanen [<mailto:cnldental@yahoo.com>]  
**Sent:** Sunday, August 30, 2015 3:56 PM  
**To:** Madore, David; Stewart, Jeanne; Mielke, Tom; Orjiako, Oliver; McCauley, Mark  
**Subject:** Cities create Poor Health - For the Record

Dear Councilors,

CCCU, Inc. is aware of a Clark County Health Department Open House for the Public on Monday, August 31, at 6:00 PM at the Vancouver Library, to push a staff agenda about "safe food". CCCU, Inc. has read the 64 page document intended for the Comprehensive Plan, authored in part by planner, Oliver Orjiako. Hidden in it's text, are proposals to create ordinances and public policy to lock up all rural and resource lands as they are today, and force people to re-combine their lands. In addition, there's a proposal to make even higher density housing and force people out of their cars. There is then a proposal to make people pay money, if they dare to drive a car and try to park it somewhere. The only mode of acceptable transportation will be transit, walking or riding a bike. This is the most creative deceit CCCU has seen thus far, in any document designed to force a high density, no growth agenda on the people of Clark County. It would seem that the Councilors should be well aware of what the Health Department Food Council is doing. First, an outrageous web page with shocking videos meant to frighten the public, now the meeting that will attempt to quantify those videos. Whoever authorized such staff activity should step down from whatever position they hold. The people of Clark County have had enough of the no growth and high density agenda. It doesn't work in this county and it will not be tolerated.. The attached information is only one of the confirmed studies indicating that high density is the reason for poor health, and not the solution.

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[Why living in a city makes you fat, infertile, blind, depressed and even causes cancer](#)



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## Why living in a city makes you fat, infertile, blind, depressed and even causes cancer

By JOHN NAISH  
UPDATED: 04:11 EST, 21 November 2011

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Should cities carry a health warning?

A growing body of research shows that babies born in cities, and children who grow up in them, face a battery of health problems that afflict both their physical and mental well-being.

The problems pose a serious threat because ever-increasing numbers of us are spending our lives in cities.

|  |                   |  |                    |
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The picture of happiness? Urban living is associated with higher risk of chronic health disorders, such as mental illness, immune diseases, arthritis, heart disease, cancer and fertility problems

In 1900, only 14 per cent of the world's population were city-dwellers. Three years ago, that figure had risen to 50 per cent.

By 2050, the United Nations predict that 70 per cent of people will be urbanites.

City-dwellers should have a better deal in life, compared with their rural counterparts. On average, they are wealthier and have better job prospects. They enjoy bountiful food, superior healthcare and cleaner sanitation.

But urban living carries a significantly increased risk of chronic health disorders, such as mental illness, immune diseases, arthritis, heart disease, cancer and fertility problems.

And as cities become ever more crowded, these problems are only going to get worse.

The latest studies indicate that daily exposure to urban pollution can affect us before we are even born — leaving us prone to a lifetime of ill-health.

Scientists have discovered that babies born in cities are bigger and heavier — normally a good sign — than those born in the countryside. But when they compared the placentas of mothers from a busy city and a quiet rural district, they found that the city mums had far higher levels of chemical pollutants called xenoestrogens in their blood — and in that of their unborn babies.

Xenoestrogens are industrial chemicals that affect our bodies in similar ways to the female

## DON'T MISS

▶ Selena Gomez gets a kiss from best pal Taylor Swift as they celebrate Video Of The Year win with Bad Blood squad at MTV VMAs afterparty



▶ Supermodel Anne V shows off her toned post-baby body while flaunting her ample assets in a barely-there bikini - just two months after giving birth



▶ 'Our friendship goes beyond work': Holly Willoughby can't wait to reunite with Phillip Schofield after maternity leave as they shoot This Morning promo



▶ Where was Cheryl? Jean-Bernard Fernandez-Versini celebrates his 35th birthday with pals... but there's no sign of his wife



▶ Brooklyn Beckham makes a dapper appearance at VMAs as father David unveils sweet neck-tattoo tribute



▶ The TRUTH behind health food fads: The popular healthy eating myths debunked and what you SHOULD be doing to lose weight



City life: Studies have found that pre-natal daily

hormone, oestrogen.

They are found in countless man-made pollutants such as petrol fumes, and are more abundant in industrial areas than the countryside.

As well as causing excess foetal growth, they have been linked to problems such as obesity, hyperactivity, early puberty, fertility problems and cancers of the lung, breast and prostate.

The researchers, from the University of Granada, Spain, found that although city mothers were older and weighed less than rural mothers, they still gave birth to larger babies.

Dr Maria Marcos, who led the study, says the toxic xenoestrogens seem to have a significant effect on the development of unborn children. Her report provides the latest evidence that city air can seriously hinder normal childhood development.

exposure to urban pollution can set us up for a lifetime of ill-health



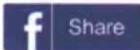
Tired and tested: Complete exhaustion is said to be a complaint caused by city life

But it doesn't end there. Last year, laboratory tests undertaken at the Ohio State University showed how urban pollutants may cause metabolic changes in toddlers that result in raised blood sugar levels and increased resistance to insulin — which regulates the way our bodies metabolise carbohydrates.

The university's professor of environmental health science, Dr Qinghua Sun, has observed that these pollutants can lead to the development of Type 2 diabetes.

'These fine chemical particles directly cause inflammation and changes in fat cells, both of which increase the risk of Type 2 diabetes. In cities, it would be very difficult to escape the pervasive influence of dirty air that begins early in life.'

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Indeed, growing numbers of children never leave their city environment. Figures from the pressure group Farming And Countryside Education indicate that one in five British youngsters has never visited the countryside. A further 17 per cent had only been 'once or twice'.

Worse still for children's development, city upbringings normally entail indoor lifestyles. Modern, concrete cityscapes are so unfriendly that only 20 per cent of youngsters play in the streets, yet 70 per cent of adults can recall doing so when they were children.

Growing up indoors has its own health threats — not least to growing eyes. Children who spend most of their day indoors have a far greater chance of suffering from 'high myopia', a severe form of short-sightedness. Half of sufferers become blind by middle-age.

Researchers at Australia's Centre of Excellence in Vision Science believe that lack of sunlight is the culprit. They say exposure to sunshine causes the retina to release dopamine, a hormone that inhibits the excessive eyeball growth that causes myopia.

Their studies have found that children who spend time outdoors cut their risk of short-sightedness by a fifth.

City childhoods have also been blamed for the fact that urban youngsters are more likely than their rural counterparts to develop asthma and other allergies.

The theory — called the 'hygiene hypothesis' — suggests city children do not get to play in the mud, lie on the grass or splash in puddles and are therefore deprived of early exposure to relatively harmless microbes in the soil.



Fun? Young people who are brought up in cities can experience significant levels of stress. This makes them more likely to have schizophrenia and other anxiety disorders



two brain tumours



▶ Michelle Heaton treats her daughter Faith, three, and son AJ, 18 months, to a fun-packed day out at Legoland



▶ 'No More Sheer-zinger': Nicole pokes fun at Ed Sheeran 'dating' and 'split' reports as she lip-syncs to Thinking Out Loud Responded to claims she was dating Ed



▶ Rita Ora flashes her toned stomach in a psychedelic crop top and matching trousers as she hits the MTV VMAs after-party



▶ 'Sorry my boob is out!' Miley Cyrus slips her nipple past live TV censors as she flashes her bare breast during the MTV VMAs... and lights a joint backstage



▶ Kanye West announces he's running for PRESIDENT in 2020; Rapper stuns MTV VMAs (then admits he did smoke a joint before acceptance speech)



▶ 'Imma let you finish': Taylor Swift steals Kanye West's infamous stage invasion line as she presents star with Video Vanguard award at MTV VMAs



▶ Miley's ELEVEN eye-watering outfits at MTV VMAs: From high-cut silver swimsuit to

Instead, they grow up in over-hygienic homes — wiped down with antibacterial cleaning products and vacuumed religiously — that deny their immature immune systems the opportunity to develop a normal resistance to germs.

Recent research has indicated that city-dwelling mothers can even pass over-sensitive allergic reactions to their babies in the womb.

A study in the Journal of Experimental Medicine found that mothers who live amid farmyard microbes give birth to allergy-resistant offspring. This does not happen with mothers in cities.

Perhaps most disturbing is the toll on young minds that can be wrought by the stress of growing up in urban areas.

A study by Dr Glyn Lewis, of the Institute of Psychiatry in London, shows that incidence of schizophrenia is twice as high in men who are born and brought up in cities.

People in cities also have a 39 per cent higher risk of mood problems such as depression and bipolar disorder, and a 21 per cent increased risk of anxiety disorders — such as panic attacks, extreme phobias and obsessive-compulsiveness.

Young women growing up in cities are five times more likely to suffer from the eating disorder bulimia, according to a ten-year study in the British Journal of Psychiatry.

Earlier this year, German researchers reported that the brains of people born in cities actually operate differently from those in rural areas.

The study, based on brain scans, found that two regions of the brain, the amygdala and the cingulate cortex (both involved in regulation of emotion and anxiety), became overactive in city-dwellers when confronted with stress triggers.

The reaction in participants from the countryside was much milder.

Professor Andreas Meyer-Lindenberg, of the University of Heidelberg, says: 'We know what the amygdala does — it is the danger-sensor of the brain and is therefore linked to anxiety and depression.'

'The cingulate cortex is important for controlling emotion and dealing with environmental adversity.' He goes on to say that this excess activity could be caused by growing up amid environmental stress, and may lie at the root of many mental health problems.

Urban over-crowding may be a significant cause of these problems. Meyer-Lindenberg adds: 'If someone invades your personal space, the amygdala-cingulate circuit gets switched on, so the trouble could be something as simple as urban density.'



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▶ Brian Austin Green keeps wedding band on after estranged wife Megan Fox removes her ring and files for divorce



▶ Khloe Kardashian and Kris Jenner are sued for 'emotional distress' by residents velen at midnight by huge fireworks display on yacht party



▶ James Hill and Austen Armacost take their bromance to a new level as they enjoy a shirtless shower and massage in Celebrity Big Brother



▶ Tila Tequila 'planning to re-enter the Celebrity Big Brother house' after being evicted over pro-Nazi comments  
▶ Abrupt eviction was on Friday



▶ Hattie girl Isla Fisher shields her fair skin beneath a wide-brimmed fedora as she enjoys hike in the Los



Childhood obesity is a major problem in cities

Packed public transport, busy pavements and heaving High Street shops are all culprits.

And urban upbringings may be contributing to the rapid rise of behavioural problems in children, particularly attention deficit hyperactivity disorder (ADHD).

American studies in the Journal Archives of General Psychiatry have found a link between city childhoods and poor attention spans.

You don't need to be a scientist to show how there is something about the countryside that soothes the human brain.

But one theory — called biophilia — is that over millennia of evolution, humans have developed a natural affinity for green surroundings, and we become anxious when deprived of them.

Research by Frances Kuo, an Illinois University environmental psychologist, supports this.

She runs a project studying hyperactive children who are brought out of the city to spend time enjoying the countryside.

She claims that just a 20-minute walk in the open air can yield a substantial improvement in a child's attention-span.

The benefit equalled the effects of taking Ritalin — the controversial behavioural drug often prescribed to children with ADHD.

However, most urbanites are too busy to seek out nature's therapeutic influence.

The Government's UK 2000 Time Use Survey shows that out of the 1,440 minutes each day, the average Briton spends only one minute in the countryside or at the seaside or even in a park or garden.

Not only should we slap a health warning on urban life — we should put a regular spell in the countryside on prescription.



Angeleno hills



▶ Lily Allen jokes about drug-taking as she posts video of a pal waving around a bag of white powder' at Notting Hill Carnival



▶ She's her star girl! Cara Delevingne stuns in patterned dress as she enjoys date night with partner St. Vincent after MTV VMAs



▶ Liam Payne debuts TWO new tattoos as he enjoys wild night out with One Direction for friend's bachelor party in NYC Celebrating his 22nd



▶ Flower power! Michelle Keegan shows off her toned and tanned figure in a short floral playsuit as she parties in Ibiza At Ocean Beach in Ibiza



▶ Gisele steps out in New York with a boosted bust... six weeks after donning a burqa to get secret boob job Wasn't willing to show off rumored boob job



▶ Christy Teigen flashes her face bra in a plunging cream jumpsuit as she sports a second sexy outfit at post-VMAs dinner with John Legend Shone in all white

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The comments below have not been moderated.

High rollers! Actor Eddie Murphy takes girlfriend Paige Butcher for a cruise in his soft top Rolls-Royce Phantom



Best dressed Taylor Swift hits a high note in a sequined crop top and trousers as she brings her Bad Blood glam squad to the MTV Video Music Awards



'Oh my goodness': The moment Kris Jenner meets Caitlyn for the first time in I Am Cait preview  
Transgender star comes face to face with ex-wife



His biggest fans: A dressed down Ben Affleck holds hands with his three children as they enjoy low-key day out  
Difficult time for family



Girls' day! Kate Hudson flashes some skin in sexy backless top after visiting the spa with a friend  
Promoting comedy, Rock the Kasbah



Nicki Minaj calls out host Miley Cyrus for being a 'b\*\*\*\*' during acceptance speech... while Taylor Swift dominates the MTV VMAs in Los Angeles



Bra-vo! Iggy Azalea dons sexy leather lingerie and thigh high boots and flashes her new cleavage as she parties with Demi Lovato after the MTV VMAs



Nicole Trunfio enjoys holiday in Palm Springs with baby son Zion as

## Schroader, Kathy

---

**From:** Steven Nelson <kumtux@aol.com>  
**Sent:** Tuesday, September 01, 2015 10:42 AM  
**To:** Cnty 2016 Comp Plan; Steve.Nelson@speelyai.org  
**Subject:** 2016 Comp Plan Record

**Follow Up Flag:** Follow up  
**Flag Status:** Flagged

Greetings to the Clark County Community Planning Office:

Let me introduce myself. My name is Steven Nelson and I have been a resident of Clark County my entire 67 years. Indeed, I am the fourth generation of the Nelson family living here since before statehood. 174th Street was historically named John Nelson Road for my great grandfather, who donated the right-of-way as well as the land for the Finn Hill Cemetery. So we are dedicated to the welfare of this county and have seen a great deal of change, both good and bad.

The 1960's through 1980's saw a tremendous growth of suburban sprawl across the county. Our original homestead is gone--replaced by numerous mini-estates upon which no agricultural activity exists. Originally, production off of that property supported a family of nine.

For the past 39 years, I've lived on a 30 acre ATFS-certified tree farm in Hockinson, now protected by the Washington Growth Management Act as RT-20. The biggest threat to timberland owners is not clear cutting, its not fire, its CONVERSION-- Converting forest and agricultural land to other uses. You can't get it back. Its forever lost to suburban sprawl.

Alternative 4 is in direct violation of the spirit and specific purposes of the Growth Management Act. Indeed, Alternative 4 represents the antithesis of growth management planning. Rather, it is exploitation of lands for the benefit of development and developers. Having a County Councilor have the ego to independently invent a planning option is not consistent with the democratic process embraced by our government. The invention of community action groups to advocate for Alternative 4 is a sham and injustice.

Should Alternative 4 be advanced to the state review stage, it will NEVER be approved. Our current councilors have not been around long enough to remember the years of law suits and money wasted to comply with GMA in the first place. We started back then with essentially Alternative 4. Since that time the Forest and Fish decision has come down. The Clean Water Act has come down. Urban in-fill has worked. Why waste out time trying to deny those decisions and laws?

As for for Alternatives 1, 2 and 3, Alternative 2, to expand urban boundaries, would be in the spirit of growth management-- to develop out our cities as they grow.

My very best hopes and wishes for reasonable minds to prevail by the County.

Steve Nelson  
24923 NE Westerholm Road  
Brush Prairie, Washington 98606

360-903-4597

---

*Ah, make the most of what we may yet spend,  
before we too into Dust descend;  
Dust into Dust, and under Dust, to lie;  
Sans Wine, sans Song, sans Singer, and--sans End!*

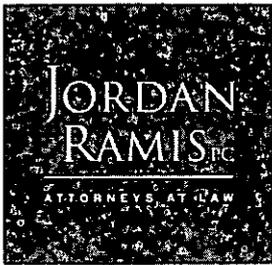
**Schroader, Kathy**

---

**From:** Anna H. Waendelin, Esq. <waendelinlaw@sbcglobal.net>  
**Sent:** Tuesday, September 01, 2015 2:38 PM  
**To:** Cnty 2016 Comp Plan  
**Subject:** Growth Management Plan - NO to plans 2 and 4

For the record, I'm totally against Plans 2 and 4 and in support of Plan no. 1 (no changes)  
We don't need any more urban sprawl. We need to keep our agricultural areas away from greedy developers.  
The charm of living in this area is the natural and agricultural areas and open spaces so close to the city. Let's not destroy it by voting for plans 2 or 4.  
Please endorse Plan no. 1

**Anna H. Waendelin, Esq.**  
Camas, WA 98607



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[DAVID.MADORE@CLARK.WA.GOV](mailto:DAVID.MADORE@CLARK.WA.GOV)

September 1, 2015

Community Planning  
EIS Comments – 2016 Comp Plan Record  
PO Box 9810  
Vancouver WA 98666-9810

Board of County Councilors  
PO Box 5000  
Vancouver WA 98666-5000

Chairman David Madore  
Board of County Councilors  
PO Box 5000  
Vancouver WA 98666-5000

Re: *GMA Draft EIS*  
Our File No. 51516-73506

Dear Chair Madore, Board of County Councilors and Community Planning EIS Comments:

Clark County needs to reset this process. The Draft EIS continues to ignore concerns expressed in my earlier letters. This GMA process continues to rely on plainly false assumptions regarding the population growth rate through 2035. We request that the Board consider asking for an extension from the state legislature in 2016 to get the planning assumptions in line with the present realities.

The background is that OFM and the county take the reduced growth rates of the recent recession and project them forward 20 years. But the recession was an aberration and in the last couple years the growth rate has returned to normal. As noted by the Brookings Institution, the recession years were an anomaly, and now popular metropolitan areas are returning to faster growth rates, especially our own. And of course for a 20 year plan, the data from a limited aberrant period cannot be expected to continue in the long term.

The 2012 OFM report, which is based on a November 2011 forecast, notes the reduced migration of the recession, and remarkably states: "[n]o attempt is made to predict the timing and magnitude of any significant migration rebound." In other words, the data the county relies on presumes there will not be an economic recovery after 2011. But now the data through 2014 is in, which shows the in-migration is rebounding, and the annual overall growth rate is up to 1.67%. Obviously the 2012 report erred.

Of course the erroneous population assumption drives the erroneous conclusions about land needed and related long range planning metrics. Remember that our county has an influx of young adults for whom we will need surplus land for housing as they transition from apartments to houses. Young adults also drive the need for parks, employment and educational lands, as their children enter school and the parents settle into their careers. Our metro area is third highest in the entire country for in-migration of young adults aged 25-34. This data is consistent with OFM's 2013 Population Trends data which shows the percentage of senior citizens in Clark County is below the state average.

Board of County Councilors  
Community Planning, EIS Comments  
August 21, 2015  
Page 2

Instead of trudging forward with bad data that will lead us to messy litigation, the county should pause to reconsider the assumptions the Draft EIS is built upon. The OFM County Growth Management Study provides that "[i]f the county shows population dynamics that would invalidate the GMA projections before the next set of GMA projections is performed, the county may petition OFM to make changes to their forecast." The County should ask OFM to do just that.

Reset Request

The County Board is on the cusp of an historic change, and will grow from 3 to 5 members in January, 2016. The current Board should not proceed with the controversial GMA update before the new commission takes office. We recognize that time is short, and suggest a postponement of further action on the GMA Update. The Board could go to the 2016 legislature for approval of a delay to allow the new board to learn about the update, and to allow OFM to revise the erroneous population numbers. The alternative is years of litigation which certainly will be slower and more expensive in the long run and may lead to a similar result.

This remains a problem that all of us need to work together to solve to make room for the next generation of families, and I look forward to working with you for that purpose.

Very truly yours,

JORDAN RAMIS PC



James D. Howsley  
Admitted in Washington and Oregon  
jamie.howsley@jordanramis.com  
WA Direct Dial (360) 567-3913  
OR Direct Dial (503) 598-5592

cc: Oliver Orjiako (via e-mail)

**Schroader, Kathy**

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**From:** Lisa McKee <lisa.mckee@jordanramis.com>  
**Sent:** Tuesday, September 01, 2015 4:25 PM  
**To:** Cnty 2016 Comp Plan; Madore, David; Cnty Board of County Councilors General Delivery  
**Cc:** Jamie Howsley; Joseph Schaefer; Peter Watts  
**Subject:** LT from Jamie Howsley re GMA Draft EIS Comment  
**Attachments:** LT re Draft EIS comment.pdf

**Follow Up Flag:** Follow up  
**Flag Status:** Flagged

Hello,

Attached is a letter from Mr. Jamie Howsley. If you have any trouble opening the attachment please let us know.

Thank you.

**LISA McKEE** | Legal Assistant to James D. Howsley  
**Jordan Ramis PC** | Attorneys at Law  
Direct: 360-567-3909 Main: 360-567-3900

Portland OR | Vancouver WA | Bend OR  
[www.jordanramis.com](http://www.jordanramis.com)

## Schroader, Kathy

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**From:** Orjiako, Oliver  
**Sent:** Tuesday, September 01, 2015 4:51 PM  
**To:** 'Lisa McKee'  
**Cc:** Schroader, Kathy  
**Subject:** RE: LT from Jamie Howsley re GMA Draft EIS Comment

Hello Lisa:

This is to acknowledge receipt of your email and the attached letter. Staff will index and made available to the PC and BOCC. Thanks.

Best,

Oliver

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**From:** Lisa McKee [<mailto:lisa.mckee@jordanramis.com>]  
**Sent:** Tuesday, September 01, 2015 4:44 PM  
**To:** Orjiako, Oliver  
**Subject:** FW: LT from Jamie Howsley re GMA Draft EIS Comment

Hello,

Attached is a letter from Jamie Howsley that he asked you receive a copy of as well.

Let me know if you have any trouble opening the attachment.

Thank you.

**LISA McKEE** | Legal Assistant to James D. Howsley  
**Jordan Ramis PC** | Attorneys at Law  
Direct: 360-567-3909 Main: 360-567-3900

Portland OR | Vancouver WA | Bend OR  
[www.jordanramis.com](http://www.jordanramis.com)

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**From:** Lisa McKee  
**Sent:** Tuesday, September 01, 2015 4:25 PM  
**To:** 'comp.plan@clark.wa.gov'; 'david.madore@clark.wa.gov'; 'boardcom@clark.wa.gov'  
**Cc:** Jamie Howsley; Joseph Schaefer; Peter Watts  
**Subject:** LT from Jamie Howsley re GMA Draft EIS Comment

Hello,

Attached is a letter from Mr. Jamie Howsley. If you have any trouble opening the attachment please let us know.

Thank you.

**LISA McKEE** | Legal Assistant to James D. Howsley  
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**Schroader, Kathy**

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**From:** Orjiako, Oliver  
**Sent:** Wednesday, September 02, 2015 8:39 AM  
**To:** Euler, Gordon; Alvarez, Jose  
**Cc:** Schroader, Kathy  
**Subject:** FW: Record on DSEIS - nameless testimony - For the Public Record

FYI, and for the record Kathy. Thanks.

Oliver

---

**From:** Carol Levanen [<mailto:cnldental@yahoo.com>]  
**Sent:** Wednesday, September 02, 2015 12:17 AM  
**To:** Madore, David; Stewart, Jeanne; Mielke, Tom; Orjiako, Oliver  
**Subject:** Record on DSEIS - nameless testimony - For the Public Record

CCCU, Inc. has reviewed the record after the DSEIS was released to the public. There are three supposed testimony entries that have no name. It does not seem appropriate to include information that no one knows where it came from, into the record. All three items could have been submitted by the same person, and very likely they were. Is such testimony really a legal document that can be considered? If that is the case, one could pose as many people with a particular opinion.

Sincerely,

Carol Levanen, Ex. Secretary, CCCU, Inc.

## Schroader, Kathy

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**From:** Orjiako, Oliver  
**Sent:** Wednesday, September 02, 2015 8:46 AM  
**To:** Euler, Gordon; Alvarez, Jose  
**Cc:** Schroader, Kathy  
**Subject:** FW: Land Use Forum: 8/31 6-8pm | Food, water, jobs and litigation in the Comprehensive Plan Update Process

**Follow Up Flag:** Follow up  
**Flag Status:** Flagged

FYI, and for the record Kathy. Thanks.

**From:** Warren Neth [mailto:warren@slowfoodswwa.com]  
**Sent:** Wednesday, September 02, 2015 8:35 AM  
**To:** Madore, David; Stewart, Jeanne; Mielke, Tom  
**Cc:** Orjiako, Oliver; Euler, Gordon; Anderson, Colete; Alvarez, Jose  
**Subject:** Re: Land Use Forum: 8/31 6-8pm | Food, water, jobs and litigation in the Comprehensive Plan Update Process

Greetings,

Monday Night's "Land Use Forum" was recorded and is available here: <https://youtu.be/ZeYiwbl77fU>

The forum had an excellent turnout and I believe the panel provided some rich information for your consideration as you develop the Preferred Alternative. As you may have seen, Slow Food Southwest Washington hosted an afterparty at Angst Gallery. It was a Clark County Grown chef collaborative. As I worked to connect chefs with farmers for the dinner, the level of concern from farmers is astonishing. There is a sense from the farming community that you three councilors feel agriculture is dead and will be pushing through ALT 2 and 4 without any amendment. As you can hear from our farmer on the panel, Sue Marshal, the implications of losing AG-20, intense parcelization right down the road from her farm and misuse of the clustering zoning, coupling that with no apparent effort to conserve economically viable farms in your Comprehensive Plan update efforts will put pressures on their families multi-generational farm that is having them question the future of their farming in Clark County.

On the tour of mid-sized farms that Councilor David Madore joined, I was able to show him a brief glimpse of economically viable farms that still exist in Clark County. I put together a list of Key Takeaways and Next Step Requests that I wanted to once again share with you.

### Key Takeaways:

- We spoke with berry growers that have 100-400 acres in production. A majority of those farmers lease their land, most of which is AG-20. Alternative 4 of the Comprehensive Plan removes the AG-20 zoning, so all properties in that zone, would turn into two AG-10 lots or even AG-5. Once upzoned, the landowner of that leased land could be motivated to subdivide the lots and sell residential lots that would be less likely to lease as AG land.
- We spoke with farmers that are working AG-20 parcels, that have smaller residential lots around them, while Right-to-Farm policy's in the county provide some level of protection, they still get neighbor complaints for the dust when tilling the field, when they apply spray, when they get mud on the road from tractors, when loud farm machinery starts up before sunrise or many other farm related activities. We have a small opportunity to identify Agricultural Production Districts where we can focus farmland conservation funding, keep AG-20 and minimize the conflict of interest between residential and mid-sized farms.

- We visited April Joy Farm, who farms 25 acres, pays two full-time farm workers, has an integrated farming system that rotates pasture raised animals and annual crops, plus grows soil fertility on-site with cover crops and collect the manure from the pasture raised animals. The farm has CSA members, sells directly to restaurants and brings Fruit Valley elementary school out to grow potatoes. April Joy Farm is the type of farm that would work well in areas that currently have neighboring residential, they are also dependent on having at least 20 acres to pay their wages and rotate their integrated field management.
- We drove through Jones Berry Farm, that is near the Ridgefield Junction and in the Pioneer Irrigation District. Their family has been farming that land for many generations and would like to continue the tradition. Having generational farming families working land in an already established Irrigation District is great foundation for an Agricultural Production District, that the county could direct Purchase of Development Rights funds from the Legacy Lands program toward.
- We toured Goug r Cellars Winery and heard his proposal for a vineyard incubator, and the potential growth of the Clark County wine industry and how that would effect our regions desirability for locating major employers.
- After decades of intense centralization and scaling-up of our nations food system, there is a growing trend to re-strengthen a network of regional mid-sized farmers. The trend is a result of disease outbreaks in mega farms raising meat and eggs and the drought facing our Nations bread basket, California's Central Valley. Clark County needs to do its part in supporting mid-sized producers to cultivate the amazing soils and climate Clark County provides. Amanda Osborne from Ecotrust joined the tour and has recently finished a year long report, Oregon Food Infrastructure Gap Analysis ([www.ecotrust.org/publication/regional-food-infrastructure/](http://www.ecotrust.org/publication/regional-food-infrastructure/)). The report shows the infrastructure gaps in the regional farm economy, which is great information to inform an economic development plan for Clark County's Ag sector.

#### **Slow Food Southwest Washington next step requests:**

1. Hold a BOCCC Work Session on Farmland Conservation tools and invite WA Farm Bureau, WA office for farmland preservation, Clark County Food System Council, Clark County Citizens United, Columbia Land Trust and American Farmland Trust.
2. Have Community Planning develop a White Paper on Transfer of Development Rights.
3. Ask Clark County Planning Commission develop a proposal for Agricultural Production Districts.
4. Ask that WSU Extension and CREDC analyze Oregon Food Infrastructure Gap Analysis and collaborate to develop an economic development strategy to encourage mid-sized farms and farm to institution partnerships.
5. Ask Legacy Lands program to identify properties that have agricultural and habitat benefits.
6. Identify Agricultural Production Districts before creating the 2016 Preferred Alternative and do not upzone AG-20 into AG-10 in those zones.
7. Analyze ALT 4's R-1 and R-2.5 impact on conceptual Agricultural Production Districts.

Let me know if you would be willing to have a follow up conversation on these topics.

Thanks,  
Warren Neth

On Wed, Aug 26, 2015 at 12:26 PM, Warren Neth <[warren@slowfoodswwa.com](mailto:warren@slowfoodswwa.com)> wrote:

Greetings,

The Clark County Food System Council would like to invite the Board of Clark County Councilors to join next weeks Land Use Forum.

As you can see below, we have compiled an excellent speaker line up that we hope can inform citizens about issues that the SEIS has raised.

Thank you,  
Warren Neth

**What:** Land Use Forum: Food, water, jobs and litigation in the Comprehensive Plan Update Process

**When:** August 31, 2015; 6 to 8 p.m.

**Where:** Downtown Vancouver Library, Columbia Room, 901 C St Vancouver, WA

**RSVP:** <https://www.facebook.com/events/974473079283670/>

Hosted by Clark County Food System Council, the goal of the event is to review the Draft Supplemental Environmental Impact Statement (SEIS) as a community and provide opportunities for participation in the development of the Preferred Alternative for the Comprehensive Plan. We will have speakers focusing on four topics: food, jobs, water resources and litigation. After the presentations, we will move to an "open house" format where community and public sector entities will have tables and provide information about their organizations and positions on the alternatives of the Comprehensive Plan. Attendees will have opportunities to write and submit their comment on the alternatives.

**Schedule:**

6-7:15 Presenters and questions

7:15-8 Open House - Community and public sector entities will have tables and representatives to discuss their requests for the Comprehensive Plan update.

An after-party at Niche Wine Bar, 1013 Main St, Vancouver, WA , will be hosted by Slow Food Southwest Washington. Small plates highlighting Clark County Grown ingredients will be prepared by Chefs from Niche Wine Bar and Fuel Bistro. Food will be served 7:30 - 9:30.

**Presenter and topics:**

-Food security-

Sue Marshall, Baur's Corner Farm, Farmer

-Water Resources-

Mike Gallagher, Southwest Regional Manager, Department of Ecology

-Jobs and the economy-

Mike Bomar, President, Columbia River Economic Development Council

-Litigation and the impact on the taxpayer-

Tim Trohimovich,

Director of Planning & Law

Futurewise

--

Warren Neth

Executive Director

Slow Food Southwest Washington

[www.slowfoodswwa.com](http://www.slowfoodswwa.com)

cell- [360-771-1296](tel:3607711296)

Warren Neth  
Executive Director  
Slow Food Southwest Washington  
[www.slowfoodswwa.com](http://www.slowfoodswwa.com)  
cell- 360-771-1296

## Schroader, Kathy

---

**From:** Orjiako, Oliver  
**Sent:** Wednesday, September 02, 2015 12:53 PM  
**To:** Euler, Gordon; Alvarez, Jose; Melnick, Alan  
**Cc:** Schroader, Kathy  
**Subject:** FW: Food Systems Council - Clark County - For the Public Record

**Follow Up Flag:** Follow up  
**Flag Status:** Flagged

FYI. Kathy, please for the record. Thanks.

Oliver

---

**From:** Carol Levanen [<mailto:cnldental@yahoo.com>]  
**Sent:** Wednesday, September 02, 2015 12:42 PM  
**To:** Madore, David; Mielke, Tom; Stewart, Jeanne; McCauley, Mark; Orjiako, Oliver  
**Subject:** Food Systems Council - Clark County - For the Public Record

Dear Councilors,

CCCU, Inc. is researching whether the Food Systems Council, an environmental political group, is affiliated with the Clark County Health Department. The information in these attachments would indicate that they are. CCCU was told that the FSC is a private organization that is not a part of Clark County and Clark County Health Department. But, the attached video clearly disputes that information. Federal grants, county staff and funding have been provided to this organization via the Clark County Health Department. The money that has been spent for this political organization, which includes the Friends of Clark County and Futurewise, could have been spent for legitimate health related purposes. CCCU believes the Clark County Health Department, who uses public tax dollars for their existence, must distance itself from organizations that have a political agenda, which clearly includes the Clark County Food Systems Council.  
The video was produced in 2014.

Sincerely,

Carol Levanen, Ex. Secretary  
Clark County Citizens United, Inc.  
P.O. Box 2188  
Battle Ground, Washington 98604

[http://www.clark.wa.gov/public-health/about/documents/fsc/fsc\\_framework.pdf](http://www.clark.wa.gov/public-health/about/documents/fsc/fsc_framework.pdf)

<http://www.clark.wa.gov/public-health/food/documents/FSCapplicationform2013.pdf>

<https://www.youtube.com/watch?v=YEGHT4F3qcY&feature=youtu.be>

# Clark County Food System Council

## Working Framework

### **Our Vision:**

*To have a healthy community and thriving local food system that:*

- Provides access to healthy and culturally appropriate food for all residents;
- Values and preserves community land for food production;
- Maximizes the use of local, regional and seasonal foods;
- Meets the needs of the present generation without compromising the needs of future generations.

### **Our Mission:**

The Clark County Food System Council increases and preserves access to safe, local and healthy food for all residents of Clark County.

**Strategies:** *The Clark County Food System Council supports a viable, economical and sustainable local food system through multiple strategies including:*

- Strengthening the connections between food, health, natural resource protection, economic development and the agricultural community;
- Researching, analyzing and reporting on information about the local food system;
- Advocating for and advising on food system and food policy implementation;
- Promoting and providing education on food system issues.

### **Background:**

The Food System Council (FSC) is a citizen advisory board that is comprised of individuals from many sectors of the community food system that have come together around common interests and beliefs about a healthy sustainable food system for Clark County. Council formation is sponsored by Community Choices and Steps to a Healthier Clark County Access to Healthy Foods Team and will also be supported by Clark County Public Health.

This framework is the working document for the initial formation of the Council and will be used as the Council is formed and as final bylaws are created and approved.

### **Purpose:**

The Council is formed to:

- Establish and maintain a comprehensive dialogue and assessment of the current food system in our community;
- Provide a forum for people involved in different parts of our community food system and government to meet and learn about how each others' actions impact our food system;
- Identify and prioritize issues and make recommendations that promote, support and strengthen access to healthy food for citizens in our community.

***Membership:***

The Council will be comprised of a minimum of 15 and maximum of 21 elected members representing as many of the following professions and/or viewpoints as possible: agriculture, nutrition, education, emergency food systems, health care, food services, food manufacturers and distributors, waste management, planning, transportation, grocery, community members, business or economic development, human services, faith based organizations, land use and concerned citizens. Members shall live or work in Clark County and shall serve without compensation.

In addition to the elected membership, the Public Health Advisory Council (PHAC) will have the ability to appoint a member to the council. The PHAC member will have the same rights and responsibilities of other council members, including voting. The appointee will work as a liaison keeping PHAC informed of FSC activities and providing a link for PHAC support, as requested by the council.

Initially, Council members are appointed for one or two-year terms and may be reappointed for an additional term with rotations that ensure continuity with new members joining experienced members. The membership selection process shall strive to consider racial, socioeconomic, ethnic and geographic diversity.

The Council shall establish standing committees and/or issues committees to perform the work of the Council and to include additional stakeholders. As circumstances arise, the Council can alter, change or disband these committees.

Council members are expected to attend all meetings. Excused absences (sickness, death in family, business trips or emergencies) will not affect a member's status. However, three consecutive meetings and/or more than three unexcused absences in a 12-month period shall constitute cause to recommend resignation and replacement of the position.

Officers shall be elected by a majority of vote of the Council and include a chairperson and vice-chairperson. Officers shall serve for a term of one year or until their successors are elected.

Having a broad representation of support and interest from across the local food system is important to the efforts of the Food System Council. Individuals, organizations or agencies that support the mission of the Clark County food System Council are invited to participate as affiliate members. Affiliate members provide input and resources to the work of the council, including assistance on work activities, but are not voting members. The membership committee will be responsible to develop criteria for affiliate applications, to review requests for affiliate status quarterly and report back to the council regarding recommendations for affiliate membership.

***Duties of Officers:***

***Chairperson-***

- Develop meeting agendas with staff and lead the Council meetings.
- Serve as the main liaison between the Council and government representatives.
- Represent the organization to the community.
- Ensure the Council acts in accordance with policies and mission.
- Facilitate consensus decision-making whenever possible.
- Put aside personal opinions when speaking for the FSC.
- Commit to keeping the work of the FSC going between meetings.
- *(The first year will be a one- year term. The Council will revisit next year to determine continuance for a two- year commitment.)*

#### Vice-Chairperson-

- Assume duties of chairperson in his/her absence.
- Ensure FSC acts in accordance with its policies and mission.
- Commit to keeping the work of the FSC going between meetings.
- Assist the chairperson with FSC tasks as needed.
- Commit to taking over for chair when term is up
- *(There is an assumption that the Vice Chairperson will take over the chair position, though there is not guarantee that they will be Chairperson in 2009-2010. The Council will reassess this process next year.)*

Meetings are open to all community members but only the Council members will vote and/or take action on recommendations and work activities for the Council.

#### **Meetings:**

The Council shall hold regularly scheduled meetings that are publicly announced in advance. All regularly scheduled meetings will include a reasonable allotment of time for community input.

Special meetings can be called by the officers of the Council. The purpose of the meeting shall be stated. Except for cases of emergency, at least five (5) days notice shall be given.

Support for meeting organization, minute taking and distribution is provided by staff.

#### **Ground Rules:**

*Council members agree to-*

- Start and end meetings on time.
- Turn cell phones to vibrate or off.
- Read minutes when a meeting has been missed.
- Build trust by meeting commitments to one another.
- Fully participate, actively listen and use open communication methods.
- Value each others' opinions.
- Maintain a focus on vision, mission and strategies.
- Work toward progress.
- Uphold decisions made by the Council (speak with a unified voice).

*Staff agrees to-*

#### *Agenda-Meeting Planning*

- Receive requests from membership for agenda items prior to second Tuesday of the month.
- Meet with co-chairs to prioritize items and develop agenda for next meeting.

#### *Meeting Setup and Support:*

- Set up meeting space.
- Assure note taker and meeting leaders are present.
- Assist with flow and time keeping during meeting.
- Provide technical assistance as necessary
- Review minutes with co-chairs for completeness/accuracy.
- Send minutes, next agenda and any attachments to council 1-2 weeks prior to the next meeting.

#### *General Support*

- Be an active participant in the workings of the Council.
- Receive and distribute appropriate information e-mails to membership.
- Assist in seeking resources for council work.

- Assist council in connecting with other boards, committees and community groups and elected officials.
- Assist sub committees and task forces, as needed.

**Decision Making:** The FSC will make decisions by consensus.

- If consensus is not reached, the FSC will decide how to proceed on a case-by-case basis. Options could include deferring the decision and reconsidering it later, forming a subcommittee to gather more information, and/or getting external feedback on the issue.
- For each Council member, the standard for agreement is that feels that they can support the decision.
- The FSC will check consensus by a thumbs up, down, or sideways poll (sideways poll means “I need more clarification and/or check in with me”). No abstentions.
- If a Council member disagrees, s/he should clearly articulate concerns and try to offer an alternative solution.
- Everyone should understand whether the issue being discussed is time-sensitive.
- A Council member who must miss a meeting and has strong opinions about an issue that will be discussed should find a way to convey their opinions to the group.
- A quorum of Council members, which will consist of one-half of council plus one, need to be present for decisions to occur, with either the Chair or Vice chair also present.
- Council members need to be present to participate in a decision (no proxies).
- Council work tasked to committees or task forces that require timely attention may be approved via e-mail. A deadline for members to respond will be established and lack of response will be determined as consensus to move the issue forward.

**Criteria for Taking on Issues:**

- Is there a direct connection between the issue and the vision, mission and strategies?
- Is it an immediate issue that will have a major impact on the food system?
- Is the issue urgent or time sensitive?
- Does the issue build or sustain an existing effort?
- Can the FSC make a difference or influence the issue? What community or affiliation are we trying to influence?
- Does the FSC have the resources to commit to the issue?
- Do we know enough to decide?
- What are the basic pieces of information we need to take this on?
- Who else is working on the issue?

**\*\* Food System Definition -** The chain of activities beginning with the production of food and moving on to include processing, distributing, wholesaling, retailing, preparation and consumption of food and eventually to the disposal of food waste

For more information contact: Tricia Mortell, Clark County Public Health, 360-397-8000 Ext 7211, [tricia.mortell@clark.wa.gov](mailto:tricia.mortell@clark.wa.gov).

# Clark County Food System Council Application Form

Please e-mail your completed form to: **Theresa Cross**, [Theresa.cross@clark.wa.gov](mailto:Theresa.cross@clark.wa.gov) or  
**Kachina Inman**, [kachina.inman@clark.wa.gov](mailto:kachina.inman@clark.wa.gov)  
Mail: PO Box 9825, Vancouver, WA 98666

## GENERAL INFORMATION

Name

Street Address

City

State

Zip Code

Work Phone

Fax

E-mail

Profession/Position

Area(s) of food system expertise or affiliation

Brief (no more than one page) description of your interest and ability to contribute to the Food System Council's mission. A personal resume may be included.

Able to commit to two year term

Able to attend a monthly meeting: Fourth Thursday of the month 4:00-6:00

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# Food System Council Public Meeting ; Jefferson County, WA



JeffCoWa FourH

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Published on Oct 27, 2014

The first public meeting for a proposed Food System Council was filmed on October 1, 2014 at the Chimacum Grange in Chimacum, WA. How will establishing a local Food Council assist Jefferson County in strengthening our local food system? The discussion of why and how Jefferson County would benefit

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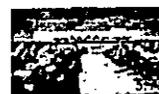
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**Schroader, Kathy**

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**From:** NoReply@Clark.Wa.Gov  
**Sent:** Wednesday, September 02, 2015 5:09 PM  
**To:** Cnty 2016 Comp Plan  
**Subject:** 2016 Comp Plan comments submitted

Following comments were submitted online:

Parcel No:

Subject: Stop Urban Sprawl

Comments:

I'm writing to express my support for Alternative 1 and express my deep opposition to Alternatives 2 and 4. As a transplant from California, I have been directly effected by the economic consequences of allowing urban sprawl to take over rural areas. We need to stop the short sighted urban growth and maintain Clark Counties rural farming land for future generations and smart planning options.

Submitted by:

Tracy Maguire

Email: [tracymaguire@earthlink.net](mailto:tracymaguire@earthlink.net)

Address:

4155 NW Sierra Drive  
Camas, WA